

SPOTLIGHT 186 - *Radio Perlee*

The station originally intended for the spotlight this month was RADIO BARONES. Unfortunately, his proposed visit to the UK has been postponed to late September/early October. Therefore, I will be featuring RADIO PERLEE this time.

The recent return of RADIO PERLEE to the mediumwaves after quite a long absence from the international pirate scene, has caused quite a bit of excitement among keen MW DXers. He seems to be everyone's favourite Dutch pirate at the moment. As far as dedication to giving the best from his programmes is concerned, RADIO PERLEE is second to none. The programmes are full of great music and jingles etc. Mr Perlee likes DXers to be involved with the programmes as much as possible and does a requests and dedications spot as well as reading out DXers letters and giving Free Radio news. If there is such a thing as a professional Dutch pirate, PERLEE fits the bill perfectly.

Let's take a closer look at this popular and unique pirate.

Starting out in 1979 on the FM band, he used the name RADIO WILLY. Then, after a short spell on the FM only, he turned to SW and MW. DXers who have been around for some time will remember him as RADIO WBI or WALVIS BAAI INTERNATIONAL. As RADIO WBI, he once received reception reports from an entire class of Swedish schoolchildren who were taking part in a DXing project with their teacher! Mr Perlee also recently told me that for one SW broadcast, he received 124 letters! Those were the days!

Around 1984, he started using the name PERLEE which is the name from a famous manufacturer of Dutch barrel organs in Amsterdam.

Unfortunately, he got caught by the RCD (Radio Controle Dienst) once in 1981 and again in 1986 and was off the air for some time. He could be heard infrequently though on 186 metres with QSO contacts only. However, in 1991, he rocked the airwaves once again with some great international programmes using 1610 kHz.

Due to interference problems now affecting 186 metres, RADIO PERLEE can be heard on 1510 kHz. This is a very wise choice as it

is virtually interference free after 2130 UTC. Results to date have been excellent with reports coming in from all over Europe and the CIS too.

Using five PL519 tubes, the RADIO PERLEE transmitter is self made, as is most of the other equipment found in the studio. In a very neatly laid out studio, you will find twin turntables, an audio mixer, amplifier and equaliser, two CD players, a jingles machine and tape decks! The only thing you won't find here is the transmitter! This is situated some distance away and is fed by an FM link. The AM transmitter is capable of around 900 watts and usually puts out 500. The modulator gives 1200 watts of power.

The antenna is a unique combination of helical and long wire. It is approximately 25 metres high and the total length is around 140 metres. For receiving and QSO purposes, the Panasonic DR 99 is used.

Operator, Ipe is 27 years old and married and his English is very good. He also has a great record and CD collection and plays anything from 60's and 70's oldies to modern rave and house music.

Plans for the future are to make more programmes on 1510, mostly in the winter months, every fortnight. Plans are also in hand for a return to SW in the autumn.

You can always write to RADIO PERLEE c/o DPRS, 12 Dorman Road, Preston, England, PR2 6AS. As QSL manager of the station, I promise a quick reply. Your comments and reports are most welcome. We have a selection of QSL sheets available to verify your reports.

Listen out for RADIO PERLEE on Saturday nights at around 2300 UTC.

In conclusion, I would like to say that RADIO PERLEE is truly an international pirate and on a personal note, a great fellow.



PIRATE CONNECTION 2

The Scandinavian Free Radio Magazine



This is **Pirate Connection**, a Free Radio magazine focusing on Scandinavian, European and North American pirate radio. PC is published on a bi-monthly basis and the contents will in many respects be dependent on contributions from our readers. Everyone is therefore invited to send in just anything that may be of interest, news, logs, articles etc.

Subscription rates

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Editorial speaking

Hello there again and heartily welcome to another cram-full edition of Pirate Connection. Since last time I've got plenty of letters and phone calls with flattering comments about PC. Thanks to you all! One of the letter came from Morris Walker who wrote: "I was very impressed with the content and layout of the publication - in fact excellent!" This issue is a result of lots of hard work and I want to thank all my wonderful contributors who provide me with great features and articles. Also big welcomes to Anssi Nieminen of Skanneri/FRCF and Igor Krilov of RWBI who are new members of the PC editorial staff. Anssi runs a great Finnish radio magazine called "Skanneri" which is written in the Finnish and contains lots of info on Free Radio and technical features. Highly recommended if you understand the Finnish language! Contact Anssi at the address above for further info. This time Anssi has written an outstanding story about the Finnish FM-pirate Radio Galaxy. Read and enjoy it! And Igor starts a new column in PC, taking you into the exotic world of Eastern pirates and other interesting items! Derek continues his excellent features on Dutch pirates and also tells about a recent visit that Barones & Zwarde Non made to Preston. Chris takes you into the highly interesting world of US pirates. And last, but not least, Jonny gives you a lesson in how to make your own transmitter till Christmas, hopefully contributing to an increased activity on the Free Radio scene during the forthcoming winter. Also a big thank you to my friend Michael Andersson who has covered the latest developments on the raid and legal proceedings against Action One. Also thanks to Leif Bredford, Bo Harling and Maria K Blom for allowing me to publish their articles, published in Skånska Dagbladet and Arbetet. So lean back in your armchair and enjoy yet another super issue of PC! Stefan Printz

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ACTION ONE AND JUSTICE

By Michael Andersson

A fatal evening for the pirate

The pirate station Action One, which you could read about in the last edition of Pirate Connection, was raided on the 14th of July 1992. Five or six young men were in the studio and all of them were arrested and brought from Kävlinge to the police station in Lund. The main operator and owner Marek Andersson was in his home eating supper and wasn't caught in the studio until later in the evening. When he heard that the station turned off the transmitter, he called immediately to the studio and was told about the unwelcomed visit. The police then went to his apartment, but he wasn't there, but was arrested a while later. The equipment, worth several hundred thousands in Swedish currency, was confiscated both in Marek's apartment and in the studio. The police didn't know for how long the station had been transmitting as neither they nor the Telecom had got any tip-off about it. The Swedish Telecom discovered themselves that these illegal transmission took place from Kävlinge and the police received a report on this a week prior to the raid. Then the Telecom tried to locate the station more exactly. When the raid was carried out, 13 officials in plain clothes stepped in peacefully and quietly and the pirates didn't at first understand that they were from the police. A while later, the atmosphere became more heated but the unwanted visitors behaved decently, some people on the station told.

New premises

The pirates moved into new premises in central Kävlinge two weeks before the raid. The premises were an abandoned workshop. The transmission were increased and they broadcasted around 70 hours each week. The transmissions began at mid-day and lasted until next morning. Before, they had transmitted irregularly for over a year since summer 1991 from Marek's apartment. The last weeks they got more and more listeners, from all over the south-west part of Skåne, and the telephones were ringing constantly. One of the calls came from a police man! Action One said they had driven the local radio stations in the neighbourhood out of business.

Taken into custody

Five of the arrested people were set on free foot after some interrogations but Marek was taken into custody at the police station in Lund. The police also thought that the equipment was stolen.

Fellows of Marek

The five people were all fellows of Marek and in their early 20's. They helped Marek with the transmissions and they are only suspected of offences against the Radio Transmission Act. The minimum penalty for illegal transmissions is a fine, but in a serious case the penalty can be up to one year in prison.

Music programmes

The programmes mostly consisted of music, chats and brief messages about events in Kävlinge. The station sounded like many local music radio stations for youth people. No organization was behind the station, nor was there a licence to broadcast. Marek told his fellows that he had applied for a licence at the Telecom and that they were allowed to make test transmission with low power while waiting for a licence. Action One was heard best around Kävlinge and parts of south-western Skåne, but was also heard in north-western Skåne as well as in Malmö and Trelleborg.

Stolen equipment

The station's equipment had very high quality and the information about its value varies between 500 000 SEK and 1500 000 SEK. Among the confiscated equipment were transmitters, mixers, parabolic aerials, microphones, synths, music machines, tape recorders and over 10 running metres of records. Also other stuff like computer, printer, typewriter and xerox machine were found. The police also found transmitters and amplifiers, worth 90 000 SEK, buried at a forest road in the countryside. This equipment was dumped by Marek according to the investigation, after he had called the studio and realised that his station had been raided. He was also using a vehicle without lawful authority. However, Marek denies the digging.

Several local radio stations were victims of burglaries the past year and the police suspected that the equipment came from these burglaries. The police managed to identify most of the equipment. Marek, on the other hand, claimed that he had bought most of it second-hand and some of it from a company in USA. But this was hard to believe for the investigation, because the equipment was worth a great deal of money and Marek was also out of job most of the time, with the exception of some casual jobs as DJ and a few other commitments. Marek says that the money comes from a sale of an apartment, from a loan and tax refund. He also says that he's very cautious with money and spends most of his pocket money to his radio station.

The Swedish Telecom relieved

Hans-Erik Jeffmark of The Swedish Telecom told about four recent burglaries during the month of October 1991 when they had equipment worth SEK 200 000 stolen. All of it except for one unit were found at the raid. However, most of it was in bad shape as it had been buried into the ground.

Radio P4's alarm prevented a burglary?
Marek and a 17 year old friend of his were caught on New Year's Eve 1991 at "Lund Garantibol" for attempted burglary and were later convicted in court. Both got probational sentences. They told the court

that they were going to steal car stereo sets to a fence (receiver of stolen goods) in Malmö. In the same building, Radio P4 have studios...

Short-lived career on Radio P4

A while ago Marek tried to become a member of the Radio P4 staff according to some newspapers, but the tapes he made didn't come up to expectations, claimed Ingrid Steen of Radio P4. In spite of this, Marek made jobs for several companies in the name of Radio P4, according to Ingrid.

Two companions steps forward

Björn Persson, 20 and Ola Grankvist, 19, who has been involved in the station since last autumn, didn't think it was strange that Marek put so much money into the station, since radio is Marek's main interest. The Telecom praised the good sound quality of the station! However, Björn & Ola became chocked and bitter, because they claimed that they had no idea that the equipment was stolen, nor did they know that the transmissions were illegal. Now they want to start a new radio station called "Action One Legal Station" and they hope to get a licence despite their involvement in the illegal station. Ola was previously head of a programme at Kävlinge Local Radio, so it's a bit weird that he didn't smell a rat.

Three counts

On Friday 7th of August, prosecutor Karin Neander Durling started the legal proceedings against Marek. The plaint contained 1) offence against the Radio Transmission Act, 2) receiving stolen goods and 3) unlawful driving of a vehicle. Karin claimed that Marek had bought stolen goods of a local radio (Nybro) from a person in Småland for 3000 SEK. The value of this equipment was estimated to 142 000 SEK. Marek says he was drunk at this occasion and he didn't realise that the goods were stolen until afterwards. Then he dared not go to the police as he thought he might be suspected of having committed those burglaries. The equipment that was stolen from The Swedish Telecom Marek claims he bought from a Dane for 30 000 SEK. Marek said that he had bought most of the equipment through different adverts in papers and magazines. There were also burglaries on many other radio stations. At the razzia in Kävlinge, the equipment that was found could be connected to all 12 burglaries. The date of trial was set to 13th of August 1992, at 10 am.

The trial

Marek denied all the charges, except for the offence against the Radio Transmission Act, the unlawful driving plus a couple of the receiving-stolen-goods offences. He told that he had bought the equipment via adverts in papers and magazines, in radio shops and by some contacts.

The court tried to figure out which parts of the equipment that could be used for broadcasting and Marek, who seemed to be used to acting in court, held a complicated technical reasoning and the drift of it was that hardly nothing of the electronic equipment, each one separately, could be used for broadcasting. The district court judge thought it was no point in looking on

the equipment but when Karin insisted he changed his mind, so the court went out looking on the equipment and Hans-Erik Jeffmark of The Swedish Telecom estimated the value of it. However, many people thought that he overestimated it, not taking the decrease in value into consideration. Marek's lawyer, Olof Arnbom, questioned Jeffmark's competence as Jeffmark only is an expert on transmitters. The transmitters were just a small part of all the equipment. However, Jeffmark was very impressed of both the equipment and Action One's programmes. But he said that "a radio station just needs one mixer, not six". Prosecutor Karin said that the equipment was worth 509 400 SEK.

The defence opposed against most of the confiscations and meant that these were not defensible according to the Radio Transmission Act. Just stuff like transmitters and antennas could be confiscated and forfeited. One confiscation was cancelled - a jemmy. Prosecutor Karin poked fun at this and said that this jemmy was probably the only thing that Marek owned legally. A remarkable thing that was found in Marek's apartment was a map showing the place where different transmitters were situated. At one of these places, a burglary was made, but Marek told that he had got nothing to do with the thefts. As a DX'er he's interested in where different transmitters are situated he told.

The aim and direction of Action One was to work with professional equipment, and by announcing their telephone number get backers and financiers in order to provide regular programming. Marek knew he would get caught and said his illegal transmissions were a protest against the radio monopoly. The prosecutor demanded at least 6 months in prison and Marek should be sent to prison as soon as possible. The defence wanted a continued probational sentence and said that only the transmitters could be confiscated.

Surprisingly severe verdict

Two weeks later, the verdict was announced. Marek was sentenced to 18 months (!) in prison and was convicted of all charges. Also previous crimes committed by Marek was included in the verdict.

In the verdict, the court says that Marek couldn't give any clear details on his purchases and couldn't show any receipt. And the court considered this to be a serious case of receiving of stolen goods.

Everyone of you who has read the articles about Marek and Action One, has surely already an opinion about Marek and whether he is guilty or not. Is he a criminal young man with a special liking for radio broadcasting or is he an almost innocent victim of ill-fated circumstances?

This article is based on information from newspapers and Pirate Connection 1 plus impressions conveyed by Stefan Printz and Morgan Holmquist. My deepest thanks to them. Marek will now appeal against the verdict and has engaged one of Sweden's most famous and well-reputed lawyers, Leif Silbersky. We'll get back to this as soon the case is taken up in The Court of Appeal in Malmö.

- Michael Andersson 920902 (translated by Stefan Printz)

Kävlinges radiopirat omhäktades för häleri

SKD 920801

• LUND: Den 22-åriga radiopiraten omhäktades i går vid Lunds tingsrätt.

Trots en något lam insats från distriktsåklagare Karin Neander-Durling, beslöt tingsrätten att 22-åringen skulle stå fri, sätta in häktet.

Karin Neander-Durling menade att 22-åringen skulle kunna försvara utredningen på grund genom att tala med de övriga misstänkta i härvan. Dessutom är inte all den utrustning som tagits i beslag identifierad.

Men de övriga ynglingar som varit knutna till den illegala radiostationen Action One misstänks inte för annat än olaga radioverksamhet.

22-åringen själv sätter häktet på grund av misstanke om grovt häleri.

Sålt?

Tidigare brott

- Polisen borde rimligen ha

Vid förhandlingar igår lättade hon lite på förläten i den

beslagtagit all den utrustning som finns. Man har gjort husränsakan tre gånger, och borde då rimligen fått med sig allt stöldgods. Jag har svårt att inse att 22-åringen skulle kunna förtöra bevis om han sätts på fri fot, sa rådmän Knut Norrman i går.

Däremot ligger 22-åringens tidigare brottsverksamhet hon i färet. Han har dömts för fyra inbrott och ett inbrottsförsök.

Det tidigare häktningsbeslutet överklagades dessutom till hovrätten i Malmö, som dock menade att det fanns risk för fortsatt brottslig verksamhet.

Alltså får 22-åringen stanna i häktet ännu en tid. Senast den 7 augusti måste Karin Neander-Durling presentera sitt följd.

Han erkänner att han köpt en mindre del av den stulna utrustningen. I övrigt förnekar han brott.

LEIF BREDFORD

Radiopirat åtalas för häleri för halv miljon

SKD 920808

• LUND: Elva inbrott – och den 22-åriga radiopiraten binds in till något av dem.

Däremot åtalades han i gär för häleri av stöldgodset, som enligt expertis är värtyt dryg 600 000 kronor.

Allt har stulits under hösten i Kävlinge, Staffanstorp, Dalby, Svedala, Häljarp. Men också i Ljungby, Nybro, Västervik, Öskarshamn och Markaryd.

22-åringen själv erkänner brott mot radiolagen och ett fall av häleri – men menar att han köpt och sält resten av stöldgodset i god tro.

Förnekar.

Det ordet återkommer gång på gång i de förhör som ingår i den stämning som distriktsåklagare Karin Neander-Durling lämnade in till Lunds Tingsrätt i går.

Vid polisens razzia mot pirat-

radiostationen Action One den 14 juli hittades stöldgods från tolv inbrott till ett sammanlagt värde av drygt 600 000 kronor.

Enligt 22-åringens berättelse tråffade han i december en man utanför diskoteket Eduhults loge i Ljungbytrakten.

Kriminalinspektör Anders Jansner var på ett tidigt stadium tvärsam till att 22-åringen kunnat få ihop det kapital som krävts för att köpa den omfattande utrustningen.

Visserligen har 22-åringen haft diverse ströjjobb som discjockey – men han har aldrig haft en längre anställning, och har två avbrutna gymnasieutbildningar bakom sig.

Enligt 22-åringen själv kommer pengarna från en lägenhetsförsäljning, från lån och från en skatteåterbäring.

22-åringen åtalas också för olovlig körsning.

han köpt genom annonser. Han har dessutom sätta utrustning till bland annat Karlskrona närradiosförening.

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LEIF BREDFORD

Tre åtalspunkter för radiopiraten

ARB 920808

□ Av MARIA K BLOM

LUND: I går lämnade åklagare Karin Neander-Durling in åtalet mot den 22-åriga radiopiraten till Lunds tingsrätt.

När han ställs inför rätta i slutet av nästa vecka rör det sig bland annat om stulen utrustning för mer än 600.000 kronor.

Enligt stämningsansökan åtalas 22-åringen för brott mot radiolagen, grovt häleri och olovlig körning.

Sändningarna från radiostationen "Action One" förnekar inte Kävlingebon. Däremot menar han i ett brev till Arbete och fritid att stationen på Fiskaregatan i Kävlinge endast sände "i stor skala" i en månad. Men enligt åklagarens

stämningsansökan handlar det om ett helt år dels från 22-åringens egen bostad, dels från stationen.

Köpt billigt

Angående den stulna utrustningen skriver den åtalade i sitt brev att ingen startar en piratradiostation med stulna saker och sedan sänder över en "läthittad" frekvens. Förr eller senare skulle han bli upptäckt i så fall.

Åklagaren är av annan mening. Bland annat har 22-åringen köpt utrustning av en person i Småland för 3.000 kronor, där det sammalagda värdet är 142.000 kronor. Vilket han har varit medveten om, eftersom han sålde en av sakerna vidare till en närradioförening i Blekinge för 19.500 kronor.

Totalt rör det sig om tolv inbrott där det stulna sedan hit-

tades på radiostationen i Kävlinge. I alla utom ett av inbrottet har olika radiosändare, mottagare, mixer, förstärkare med mera stulits.

Sveriges Rundradio har vid fyra tillfällen och på olika platser haft inbrott där stulits för ett sammanlagt värde av 110.000 kronor.

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Totalt rör det sig om tolv inbrott där det stulna sedan hit-

beror på dels på det värdefulla stöldgods som polisen fann – och dels på att mannen tidigare dömts till skyddstillsyn för bland annat inbrott.

Vid razzian mot den illegala radiostationen Action One i Kävlinge fann polisen stöldgods för mer än en halv miljon kronor.

Större delen av utrustningen kunde knytas till tolv in-

Kävlinge

SKD 920828

Radiopirat dömd

Den 23-åriga radiopiraten i Kävlinge som avslöjades vid en polisräzzia i somras, dömdes i går till ett och ett halv års fängelse.

Del 2, sid 47

Ett och ett halvt års fängelse för radiopirat

SKD 920828

Inga kvitton

– Han har inte i ett enda fall genom inköpskvitton eller klara uppgifter om sina säljare redovisade bland annat till en annons i domen.

Och fortsätter:

– Eftersom det rör sig om betydande värden samt att egendomen förvärvats systematiskt ska hälerierna bedömas som grova.

Till detta kommer brottet mot Radiolagen, och att 23-åringen körde bil utan körkort när han greps av polisen den 14 juli.

Vid Radio P4

Som Skånskan tidigare berättat, dömdes 23-åringen senast i februari i år för ett inbrottsför-

sök hos en bilfirma – som dock ligger vägg i vägg med Radio P4:s station på Öresundsvägen i Lund.

Han har tidigare dessutom dömts för fyra inbrott och häleier.

Straffet då blev skyddstillsyn – mannen har en prövotid tills den 15 februari 1993.

Det är därför straffet nu blir relativt långt.

Däremot får 23-åringen behålla en del av den utrustning som polisen beslagtagit, nämligen den som polisen fann i hans bostad, och som inte finns med i dataregistret över stöldgods från inbrott i Sverige.

LEIF BREDFORD

Radiopiraten nekar till nästan alla anklagelser

SKD 920814

• **LUND:** Målet mot den 23-åriga så kallade radiopiraten inleddes på torsdagen vid Lunds tingsrätt.

23-åringen åtalas för brott mot radiolagen, grovt häleri och olovlig körning. Han erkänner den olovliga körningen, till viss del brott mot radiolagen, men bestrider varje form av häleri.

Den 23-åriga kävlingebon har sedan sitt piratradio från en lokal i Kävlinge cirka ett år när han avslöjades i mitten av juli.

Utrustningen i lokalen har de senaste åren stulits vid tolv olika inbrott från närradiostationer i

Sydsvige. Lokalradion i Kävlinge samt närradiostationer i Lundatrakten, Ljungby, Västerås och Oskarshamn har blivit av med utrustningen.

En av de stora mälsägarna är Svensk rundradio AB, tidigare Televerket radio. Enbart Svensk rundradio har blivit av med utrustning värde 110 000 kronor från sina olika stationer i Sydsvige.

Halv miljon

Hälerimålet gäller radioutrustningen, bland annat förstärkare, parabolantenn, mixerbord och mikrofoner, alltsammans till ett värde av drygt en halv miljon kronor. Dessa ting har påträffats i 23-åringens ra-

diolokal i Kävlinge, i bostaden eller i ett fall på en skogsväg nordost Svalöv. Åklagaren har även beslagtagit en kofot. Detta beslag hävdes dock. Åklagaren räjerade över att kofoten antagligen var det enda ting som lagligen tillhörde den 23-åriga radiopiraten.

Värje sig

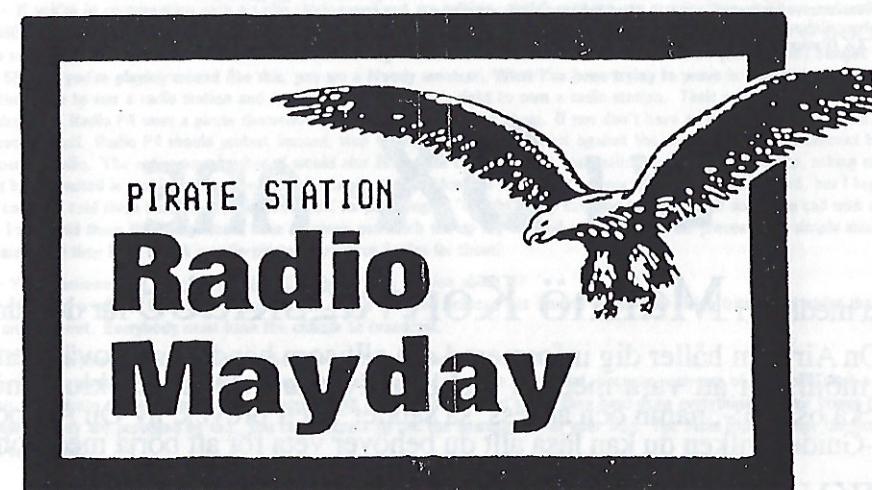
Att de övriga sakerna är stulna är fastslaget. Frågan är av vem. 23-åringen har inte medgivit något i den frågan. Han hävdar en tvist, både själv och genom sin advokat, att utrustningen köpts genom annons i tidningar, i vanliga radioaffärer eller via kontakter.

Rätten försökte få klarhet i

vilka av de beslagtagna ting som kunde användas för att sända radio. Detta för att fastställa brott mot radiolagen. Här värje sig 23-åringen elegant med ett mycket invecklat tekniskt resonemang som i princip gick ut på att ingen av de elektroniska apparaterna, var för sig, kunde användas för radiosändning. Dock fick 23-åringen ge sig angående en beslagtagen sändarantenn som ganska uppenbart används för radiosändning.

Förhandlingarna vid tingsrätten var vid vår pressläggning ännu ej slutförda. Dom i målet meddelas senare.

BO HARLING



Radiopiraten erkänner men vill slippa fängelse

SKD 920912

• LUND: Radiopiraten erkänner nu de brott som Lunds tingsrätt dömt honom för – men vill ha en annan dom än fängelse.

När han nu överklagar domen till hovrätten tar han den kände advokaten Leif Silbersky till sin hjälp.

Det var i slutet av augusti som tingsrätten meddelade sin dom mot den 23-åriga Radiopiraten. Fängelse i ett och ett halvår.

Tingsrätten dömdde honom för brott mot radiolagen och grov olovlig körning. Men den härda domen gällde främst häleri – i hans lägenhet och hans sändningslokaler hittades stulen utrustning från tolv inbrott, värde sammanlagt en dryg halv miljon kronor.

Radiopiraten själv menade att han endast i ett fall gjort sig skyldig till häleri, nämligen då han av en okänd person i Småland köpt stöldgods från ett inbrott i Ljungby och Markaryd.

I övrigt föremådde han något brott, utöver den olovliga körförboden och brott mot Radiolagen.

Ändrat sig

Men nu har han uppenbarligen ändrat sin ständpunkt.

Advokaten Leif Silbersky – som vill bli Radiopiraten privata försvarare – skriver så här i ett brev till hovrätten:

"XX (Radiopiraten namn) är

befred att underkasta sig ansvar för den brottslighet som tingsrätten funnit honom övertygad om, men förmenar att han på grund av den sociala situation han lever i bör komma i åtnjutande av en icke frihetsberövande påföljd".

På ren svenska betyder det alltså att din klient erkänner de brott som tingsrätten dömt honom för?

– Ja, säger Leif Silbersky. Enligt våra källor ska din klient tänkt visa kvittot på den stulna utrustningen, för att visa att han köpt i god tro. Det faller alltså nu?

Ja. Det är inte längre aktuellt.

Privat försvarare

På vilket sätt ska hans sociala situation kunna ge ett mildare straff?

Det ska jag plädera för i hovrätten. Inte i massmedia.

Du går i som hans privata försvarare.är detta ett tekniskt förarande, för att kunna ersätta den offentliga försvarare som tingsrätten tidigare utsett?

Ja. Som du kanske minns, fick jag släss med näbbar och klor för att ta över försvaret av den som misstänktes för bombmordet i Helsingborg. Och då var det ändå fråga om mord. Hovrätterna har blivit mycket restriktiva.

Det betyder alltså att staten inte ersätter dina kostnader, utan du får din klient betala

ur egen ficka.

Ja – men man kan ju ha släkt och vänner som också ställer upp.

Eftersom Radiopiraten inte tänker lägga fram någon ny bevisning, handlar den kommande hovrättsförhandlingen enbart om själva påföljden – straffet.

Vid sin tidigare brottslighet har Radiopiraten dömts till villkorlig dom respektive skyddsstillsyn. Den här gången önskar han samma sak.

LEIF BREDFORD



Leif Silbersky
ska försvara,
Radiopiraten
i Hovrätten.

BLI DX- ARE

Som medlem i Malmö Kortvågsklubb får du tidning en On Air som håller dig informerad om allt som händer i radiovärlden. Du har möjlighet att vara med på klubbens lyssnarkvällar och klubbmöten. Skicka oss 15:-, namn och adress så sänder vi ett provex. av On Air och en DX-Guide i vilken du kan läsa allt du behöver veta för att börja med hobbyn.

MKVK, Box 7521, 200 42 Malmö, PG: 24 52 74 - 6

AN EXCLUSIVE INTERVIEW WITH FM-PIRATE ACTION ONE

By Stefan Printz

This summer the Swedish FM-pirate ACTION ONE was raided by the Lund police and the Swedish Telecom. A month later, the station owner and main operator Marek Anderson was put on trial. There was a lot of writing about Marek following the raid and much of it has turned out to be incorrect. A few of Marek's friends on the radio station also appeared in the papers (see the cuts in PC1), where they spoke out about their involvement in the station, throwing all the responsibility on Marek and saying that they didn't even know that the station was illegal! Obviously, this was just a ridiculous try of getting away from a tight spot. Whatever people think about what's been written about Action One and about Marek himself, I thought it was important for Marek to step out from his silence and give his view on the raid and the charges against him. For obvious reasons, Marek has declined all interview inquiries from the newspapers and he stresses the point that this interview is exclusive for me and must not be published by other magazines or newspapers. It's also forbidden to publish single quotations from this interview! (SP = Stefan Printz, MA = Marek Anderson).

SP: – Can you tell me about how you got interested in radio?

MA: – Sure. My mother bought me a Philips "rock-blaster" on my 12th birthday in 1981. It had a microphone and an in-built mixer and I managed to tune in lots of different radio stations on it by turning the antenna in different directions. One of the stations I listened to was Helsingborg's Local Radio. They had one of Sweden's best radio shows ever with Jesse & Cleo. I thought "wow, I also wanna be on the radio". I started to practise in talking and mixing and this became a mania for me. When I was 13 I made my first radio broadcast on a local station in Malmö. I got the commitment by continually asking for it. I made a programme for youngsters. A while later, I got in contact with Radio Öresund in Helsingborg and I made several programmes for them. My interest just grew all the time and when I was 17-18 years old I got involved in a few Danish local stations, the Swedish regional radio (Lokalradion) and the Swedish national radio (Riksradion) for whom I made various documentaries and reports. Most jobs I got by asking over and over again. In the beginning one has to elbow one's way along telling everyone "Hello I'm here, please try me". I also started working as a DJ at this time.

SP: – When did you start thinking of setting up your own radio station?

MA: – I soon realised that I wanted to start a radio station. When I visited different radio stations, I found out that some things they did were good whilst other things were bad. I wanted a good concept. Everything that I thought was good I kept and everything that was bad I scrubbed. Action One is an idea I created that's in fact 10 times bigger than the Action One I aired now. I've got plans for everything, from editorial offices to programme formats and how I would economically finance my station. I listen to lots of radio stations, just in order to see what they have got to offer their listeners. When I transmitted illegally, I only broadcasted a little bit of the many ideas I've got.

SP: – How would you like to comment the information in Skånska Dagbladet where Radio P4 (a local station in Lund) says that you were not good enough for their station and that you had contacted several companies, presenting yourself as collaborator of Radio P4 and then making jingles for them without Radio P4 having engaged you in the jobs? And how would you like to comment the fact that a certain radio station reported you to the police?

MA: – If you're in co-operation with a radio station and you are talking rubbish without any proofs, then you have reduced your credibility. You don't have to go to the press and talk rubbish. I made a few features for Radio P4 and they knew all about them. I also made an interview with Michael B Tretow but they didn't like it. However, the national radio (Riksradion) bought it for 6500 SEK! If you're playing around like this, you are a bloody amateur. What I've been trying to prove is that it doesn't have to cost the earth to run a radio station and it should be every man's right to own a radio station. Their actions against me is just foolishness. If Radio P4 were a pirate themselves, I would have applauded them. If you don't have an open competition, you can't improve yourself. Radio P4 should protest instead, stop talking rubbish and protest against the new upcoming government bill on commercial radio. The radio must be free. I would also like to tell that my worst competitor recently called me up, asking me if I would be interested in making some promotion jingles for them. "Are you totally out of your mind" I thought at first, but I kept my head cool and told them that my price is 1000 SEK for each jingle. "Alright" they said and I had to wash down the call with a cold beer! I also told them that they would have to come and fetch me up my car and so they did! This proves what simple amateurs they are when they have to ask a radio pirate to produce jingles for them!

SP: – You mentioned the upcoming radio bill. What is your opinion about it?

MA: – It's just a way of keeping the status quo. Those who are rich can get several licences by hiring front men whilst the poor ones are kept out. Everybody must have the chance to broadcast.

SP: – What do you think of the writings about you in the newspapers?

MA: – There's a reason for their contempt against me. They are all in the same boat, because each one of them will start a radio station. If a pirate station pops up, it's a thorn in the flesh to them. That's why they have done everything in their power to run me down. They are provoked by me. You can't expect to get the newspapers on your side. The main thing is that the listeners stand up for me.

SP: - What is your comment on the accusations from the police and the prosecutor who claim that all the equipment can be connected with 12 different burglaries on different radio stations in southern Sweden the last year?

MA: - 13 police officers stampeded into our studio at the raid and they saw equipment they had never seen before. Their immediate reaction was that "all of this must be stolen". I was very astonished when they told that all the equipment was stolen. I have admitted what I've done both before the police and the court and I admitted this already at the first police interrogation (offence against the Radio Transmission Act, receiving stolen good for SEK 3000, buying transmitting equipment from a Dane worth 30000 SEK and unlawful driving).

SP: - Why did you dump parts of the equipment after the raid?

MA: - I didn't dump the equipment. I drove out with it at the countryside and put it behind a bush. I never buried the stuff. This is just a made-up story, otherwise they must have manhandled the equipment themselves. I owned 5 transmitters and I got scared. Possession of transmitters is illegal if you don't have a licence as you know. But if I only had known that the transmitters were stolen I would never have bought them.

SP: - When we spoke last on the phone you told me that you experienced your time in jail like a concentration camp. And at the court proceedings for the issue of the detention order, you looked very worn out. Could you tell me more about what you had to experience in jail?

MA: - The rules of police interrogations haven't been followed and they used to ask me questions for hours and hours without any breaks. You are a prisoner and you are worth nothing. I didn't protest because I didn't want to come across even more shit. If you set yourself up against a guard, you can be placed at OBS (observation) which is a solitary confinement cell where the police can do just anything to you, even anus inspections. They put a Jerry for you in the cell which is emptied only once a day and you'll have to stand the terrible stink. They can do whatever it pleases them to do to you there. During the interrogations they tore receipts under my nose and the police claimed they were fake. I don't think very highly of the police exactly. There were people in the jail that were in such a bad shape that they had to call upon a guard to get the door opened. Then it's gone way too far. But society works just exactly like jail. You always must do as you're being told and never think yourself.

SP: - How could you run Action One so "openly" as you did, announcing your private telephone number on the air and never keeping anything secret?

MA: - Either you are open or not, you'll get caught sooner or later. It's better to be open at get the listeners on your side. If you hide away, the listeners won't care about you. Radio Syd and Radio Nord were also open-minded and got the listeners on their side. If a radio pirate is stopped, then the pirate will start again or otherwise its listeners will start another radio station. If I had known that this was so dangerous, I would never have transmitted. What I've benifited from this is that I've received lots of positive reactions. If I had hidden away, I would have had to toil for another two-three years to get popular. A recent listener research showed that I had had 14% of the listeners in the south-west part of Skåne whilst my worst competitor had 9%!

SP: - Can you tell me about your transmissions and explain how you got so immensely popular among the listeners?

MA: - There simply was no radio station for youth people. There always was lots of people in my apartment, always 10-15 persons and a festive atmosphere. Sometimes people I'd never seen before popped in and some companies made promotion for their businesses on the air. Finally, there were so much people here and I had no private life anymore. It was a continuous party here and people lived at my place. Lots of people called in and got their favourite records played. I played the kind of music that people like to listen to and I forced the other DJ's to play hit music only. We told funny stories on the air and in the background the crowd laughed and screamed. We had a great atmosphere in the studio and we grew very popular. I managed to get the listeners to listen actively to us. The last day we were on the air, we had a competition where two of our guys went by car to a place, giving a woolly description on where they were heading. The listeners were to guess which place they had planned to go to and the winner would receive 2 CD-records. Eventually a listener got the right answer and we told him to go up to the place so we could have a chat with him. When I spoke with him a while later, I heard several voices in the background and I was told that over 50 people had come out to that place! And I asked the crowd "which station are you listening to" and everyone shouted in a resounding chorus "Action One!!" This gives you a little indication on my popularity.

SP: - What do you think about the Swedish radio stations?

MA: - The quality must be increased. There is a house of cards of stations which isn't safe from an earthquake. They have nothing to come up with. The programmes are aimed at themselves. If Action One had broadcasted from England or Belgium we had been an average station. Swedish radio is on the verge of ruin and there are just a few stations who are able to broadcast good programmes.

SP: - What can we expect from Action One in the future?

MA: - There will be no more pirate radio. I have far-reaching plans on setting up a commercial radio station and I've already got a few financers.

This interview was made at Marek on the 26th of August. On the following day, the verdict against Marek was passed and he got 18 months in prison! I called Marek and asked him to tell about his feelings and reactions, and if he would appeal against the verdict.

MA: - When they told me the verdict I couldn't believe it was true. I consider the court that's convicted me to be completely incompetent and they haven't considered what I said in court. If they think that they have stopped me, they are wrong. I'll be back. My goal is just one thing and that is to start a radio station, even if I'll have to do it from abroad. I can teach lousy DJ's to be top DJ's. I won't give up and I'll give the other radio stations a tough match. I will come back no matter how they try to stop me. Anyhow, people admit that I'm good at something and I'm gonna engage a good lawyer, Leif Silbersky... (who is a Swedish top lawyer).

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EURO PIRATE SCENE

Radio Aries is a new station operated by Andy Winter of Radio London. The station was heard for the very first time via the facilities of Radio Mutiny International 920830 on 6257 kHz. Aries will be active once or twice a month and can be contacted via the Wuppertal maildrop. All programmes begin with "The Rock Show" followed by "The Motown Flashback Show" FDX PC

Mysterious Radio City will soon test different frequencies in the 26 mb, in the 11400-11420 kHz area..... SP

German long-runner Radio CLCG is expected to return to the airwaves either 921025 or 921101 at 10 UTC via Clandestine Radio Society on 6527 kHz or 48 m. FDX

DX Revue is a Chechoslovakian DX-magazine containing a pirate column and info on clandestine stations. Sample copy is available for 3 USD, 4 DM or 5 IRCs from Jiri Karas, Box 70, Prelouc 53501, Chechoslovakia/Bohemia. DT

Dutch Pirate Radio Service offers sets of 5 80 cents Dutch stamps at £2 each for reception reporting. Write to Derek Taylor at the address given on page 2. DT

The Edge is on a timeshare with Radio Dublin and can be heard with a rock programme format on Saturdays and Sundays. They also usually ask different questions during the programmes and if you know the correct answer, you can win a CD! Is said to have £1000 worth of CDs to give away in prizes! FDX

Emerald Radio is a new in-band pirate broadcasting on 7195 kHz. Operates from England by John Richmond but no address known for this one unfortunately. FDX

Radio Fax ceased their transmissions on Tuesday 920929 as they were causing embarrassment to the Irish government! After considering the options, Fax decided to close down as they might get a SW licence from the authorities. So believe me, Fax will be back before you know it! FRS

Radio Fusion International is yet another brandnew Swedish pirate station that's been very active of late on 76 metres. Frequencies that's been used are 3917, 3925, 3928, 3930 and 3940 kHz. A few weeks ago they set up a 41 metre dipole and the first tests went out Saturday evening 921017 on different frequencies in the 41 mb and Sunday 921018 on 7440 kHz at 8.30 UTC. The station name is taken from the music style with the same name, that is rock-influenced jazz. But the station also plays newage music, rock music, pop music and hit music. You can also expect occasional live DX-programmes by Jolly Jake when he visits the station. The station will continue with broadcasts almost every Saturday night on 76 metres in the 3900-3940 kHz area at around 22 UTC and Sunday mornings at around 9 UTC in the 7400-7475 kHz area. This coming weekend 921031-921101 Fusion will join the many Euro pirates that will make tests to North America. Fusion can be heard on 7405 kHz at 2 UTC with a special made programme for the North American listeners. The address of Fusion is Media Team, Box 33, 1751 Halden, Norway (please no mention of "Radio Fusion" on the envelope). So far they've got around 5 reception reports, 3 from Sweden and 2 from Germany. Fusion has also been heard in Norway and England. SP

Horizon Sales offers different kind of offshore material including books, videos, T-shirts etc. All profits go to The Ross Revenge Support Group. Address: 121 Monkton Street, Nr Ramsgate, Kent CT12 4JQ, England. MD

Kiwi Radio from New Zealand has a new transmitter with 250 W of power and are currently testing on 5040, 5070 & 6220 kHz. KES

Laser Hot Hits is irregular and now operates on Saturday or Sunday mornings on 6233 kHz with 20 W of power. The station has a new address of Box 1218, Chelmsford, Essex CM1 4BD in England. SP

Medium wave. Radio Scotland International from Beilen in Holland has recently tested 600 kHz (!) on medium wave. So do listen out on this odd frequency. Toekomst has plans for 2.5 kW! Toni Macaroni is active again on 186 m. New pirate due on air from Groningenland, but name not yet chosen. Texta Cowboy and Radio 807 are back with regular Sunday programmes. Russian pirate Radio Nadezhda operates on 1575 kHz from Moscow. Barones has regular fortnightly international programmes on 1509 kHz. MW pirates Calipso and Bamboe were recently caught by the RCD, but they still continue to transmit! DT

Nitrozone is the new name for Total Control Radio. Operator Steve Collins also has a new name, no known as Des Francis. The station can now be reached via the RWI maildrop in France and they are occasionally active on 6275 kHz. FDX

Offshore. According to the DX-programme of Free Radio Service Holland 921018, the Dutch authorities will now give back the equipment they stole on the Ross Revenge at the raid in August 1989. The only problem is that both Peter Chicago (technician on Caroline) and Peter Moore (station manager) lay claims to the equipment. However, Caroline can't use the equipment for their transmissions, as the English Broadcasting Act can stop all offshore stations that can be heard in England. From one thing to another, Caroline has now moved to 6295 kHz. BP KES

Rainbow Radio Germany has returned to the airwaves via Radio Waves International on 7473 kHz & 11401 kHz. RRG can now be heard either on the 3rd or 4th Sunday of the month via RWI. Last year the Telecom and police visited them but found only a small FM transmitter which they forgot to remove! RRG offers an 8 color photo set for 7 USD. Address is Box 202, 6440 Bebra, Germany. BP CL JB SP

Radio Recharge International is a new appearance on short wave operated by young teenagers. Was heard via the transmitters of Freesound Radio International 921018 on 6219 kHz. They also might be relayed by other stations. FDX SP

Now to some sad news. Star Club Radio were raided on 920920 when they were broadcasting on 6226 kHz. The raid was carried out by the GPO and police after a tip-off from a nearby coast station. However, a blessing in disguise was that they didn't see SCR's second transmitter. FDX

A new Swedish pirate has been noted recently on 48 metres, playing nonstop Swedish top chart music. First noted 920919 on 6273 kHz and was on for several hours but no ID was given out. Any ideas of this one? LPI

TST Rock is a newly noted English pirate here, heard on 920913 and 920920 on 6242 kHz. See CPL for address. FDX GP SP

Wrekin Radio International which we already mentioned in our last issue, has been quite active recently on 12265 kHz with good signals noted here in Sweden. If you hear the station you can give a verbal report by phoning +44-836592442 and if you do this you'll get a maxi-CD from them! Please note that this number is only in use during the broadcasts. WRI is also a local radio station and broadcasts on FM 105.5 MHz Stereo. They have got a record library consisting of more than 8000 titles and they play top 40 records from 1959 till 1992. Present line-up is Dave Jones, Paul Kay, Stuart Scott, Chris Anton, Lee Grant and Chris Carol who all have their own type of music formats. MD SP

Till next time...cheerio Stefan.

THE 7415 REPORT By Chris Lobdell

Despite poor reception conditions from mid-August through mid-September, pirate activity continued at a fairly active level. EBO R continued his sometimes rather long broadcasts and reports had it that he even broadcasted the audio portion of a porno video for a few minutes! On 23 August, WHIP made a broadcast via CSIC around 0220 UTC, but conditions were so poor here that no much could be made of it.

A new station WKIK was first heard here around 0024 UTC on 30 August. In USB he IDs as "This is WKIK, Jacksonville, Florida, USA". Mostly IDs with very little programming, although he has been known to play rap music. No official maildrop, but letters to John T. Arthur at Box 452, Wellsville, NY 14895 will be forwarded.

Late August saw the appearance of another pirate calling itself DOWN EAST R. Announcing the Blue Ridge Summit drop, the programming consisted of recordings of "Bert and I" "Down Maine Humour". Another station calling itself USA TWO was heard on 2 September at 0002 UTC playing music by ZZ Top. No maildrop is known for this one.

On 7 September, the VOICE OF BOB made another appearance at 1.03 on 7415 USB. This was a relay by EBO R. Other new stations heard during the month of September are as follows. NORTH JERSEY COAST RADIO was first noted on 7415 AM on 11 September from 0140 UTC playing music by a group named Sea Train and giving adverts for a candy shoppe. Snapple iced tea and a store called Wava! They announced the Merlin, Ontario maildrop. This program was repeated on several other dates. RADIO AZTECA was noted on 7413 AM at 2250 on 19 September. Excellent original programming including a DX program parody, a segment called "Ask Dr. Radio" in which he explained how to "turn your radio on", This was broadcasted by an unid relay which was most likely CSIC and announced the Wellsville drop. Another new one was heard at the unusual time of 1600 UTC (noon local time here in Eastern North America). RADIO ESOTERICA was the name and it was an announced CSIC relay. Unusual music was played. A group from Iceland and a punk song from Cameroun was played. This station was on 7415 AM on 20 September using the Box 146, Stoneham, MA 02180 maildrop.

Other September showings were by RADIO BEAVER hosted by Busky Beaver with rock music from both USA and Canada. Bucky also urged Canadians to vote NO on the constitutional referendum in Canada to take place late in October. RADIO BEAVER was heard on 20 September at 0014 UTC in AM on 7417 kHz. The station RADIO FREE AMERICA was heard at 1351 on 7410 USB on 20 September. They promised a pocket sized USA constitution in addition to a QSL card for reports to the Wellsville drop. Back after about a year was WORK (Workers Operating Receiver Knobs). They were heard on 26 September on 7415 at 0156. This station concentrates on programming related to problems confronting the average "time clock punching worker". To close out September, WBZA made an unusual high frequency test on 25500 kHz around 1600 UTC on 27 September. Signals were weak and their tape machine broke but they were heard around 1620 UTC with the Wellsville drop given.

October started with a return of the feminist station WYMN (Women Radio). Pirate Jenny was talking about women's issues and playing music by female vocalists. Noted here at 0115 on 7415 AM October with a strong signal. She offered an evolutionary QSL card (showing the transition from Ape to "babe") and said it was OK to write even "if you do have a penis"!

Next issue: What was heard on Halloween (921031-921101).

73, Chris Lobdell

ONE EIGHT SIX

With Derek Taylor

As promised last time, we'll take a look at what effect the morse QRM problems have had on reception of Dutch MW pirates.

What has happened is that the vast majority of 186 metre band are now using the 1604 to 1610 part of the dial, with 1607 being the favourite choice.

Frequency choice is so restricted that it is possible to leave your radio tuned around the 1607 kHz area and hear several stations signing on and off during an evening. Very reminiscent of the old 227 metre days.

Stations are still using 1611 to 1630+ but reception can be very difficult. More and more Dutch MW pirates are using 1509 kHz, so don't forget to check here too.

Several new pirates have been heard recently on 186 metres, such as Westerman, Barracuda and an unexpected relay of FM pirate Atlas by Radio 807. Also new is Mexicano with address of Box 86, 7150 AB Eibergen, Holland.

Black Rose will not now broadcast from the west coast of Holland. Complaints about the huge antenna have forced him to abandon plans for 1 kW on 1509.

Many winter only pirates have come out of hiding, so now is a good time to hear a few of the rarer stations. Two previously rare stations who are now very conspicuous on the band are Kippenbouw and Bremen. Also Steerenboog has made a comeback.

A tentative logging of a pirate sounding like the "Zwarde Deur" from Hoogeveen was made recently on 186 metres.

Famous pirate Barones and the Zwarde Non finally made the long awaited trip to Preston, staying five days at my home. A report should appear in this edition of Pirate Connection.

Date	Fq	Time	Station
920916	1509	0.00	R Pirana
920920	1606	22.38	Casablanca
920920	1617	20.44	Westerman
920926	1616	23.07	Nordmende
921003	1607	17.47	Spanningzoeker
921003	1616	16.57	Vliegenvanger
921004	1616	2.30	Barracuda
921006	1615	19.43	Test Piraat
921007	1611	17.00	Parasol
921008	1616	21.54	Delta
921009	1509	23.41	Barones
921009	1606	21.30	Joker
921009	1608	17.22	Santana
921009	1608	19.39	Nootgedacht (A)
921009	1608	21.27	R 538
921009	1609	21.38	Bamboe
921009	1610	17.17	Valencia
921009	1610	22.53	Bulldog
921010	1609	23.20	R Atlas
921010	1611	23.32	Zwarde Zigeuner
921011	1607	19.12	Stroper
921011	1609	19.13	R 807
921011	1609	22.39	Texta Cowboy
921011	1613	15.40	Noorderster
921011	1614	15.33	Ome Jan
921012	1605	23.02	Blonde Zeeman (Almelo)
921012	1607	17.48	Thoreline
921012	1613	18.50	Sylvania (B)
921012	1615	18.05	Blauwe Vogel
921012	1615	18.11	Meteoor
921012	1615	22.55	Piccolo
921012	1617	17.56	Kristal
921012	1618	22.25	Pelikaan
921013	1610	16.58	R Zeetiger
921013	1612	16.52	R Steerenboog
921013	1614	16.56	Studio 4 Zender
921014	1607	18.23	Zwarde Non
921014	1612	22.05	Tydbrekker
921024	1606	17.33	Mexicano
921024	1607	16.43	Toekomst
921024	1609	16.22	Curacau
921024	1609	23.49	R Calipso (B)
921024	1615	16.22	Weduwe
921024	1620	17.30	Baanbreker
921025	1509	0.18	Romantic Space R
921025	1605	8.31	Sylvania
921025	1605	8.49	Golfbreker
921025	1606	8.05	Heideroos
921025	1609	8.36	Havanna

EASTERN LOOKOUT by Igor Krilov: Box 29, Moscow 109444, RUSSIA

Hello there,

Since now not just my dull Russian voice will bore you on RWBI carrier but this column you're all welcomed to. It's hard to say now what it'll be about, sure it'll be completely different from FRS Goes DX one edited by my good friend Arty. Not just to mention latest news & developments here in Russia but something else... I think it's better to start now than try to explain all my intentions concerning this new PC's column. But first the only thing you always have to remember: Russian way of Radio is very different from Western one, probably you've got it already listening to our local broadcasters as well as HAM's.

Ok, propagation is getting worse day by day and I know nobody who does not worry about it. Let's wait for 6 years or so... Hope shortwave stations will not wait. However reception on 48 mb in Moscow was very poor this summer unlike last two years, what'll be the next... Even deafening LWR with WMR heard at s2-3. R.Fax on 6205 almost unaudible at all but this is rather because of their aerial. Nearly regular reception on 3910, one night I managed to pick up WMR on 3920 with good signal faded to bad. Nevertheless 76 mb is great choice for nighttime during low-sunspot period.

Strange, RWBI managed to achieve interesting results in local nighttime service last summer experimenting with different types of antennas. Probably due to very large territory of European part of the ex.USSR nighttime 48 mb service proved to be much more effective than daytime one that we tried in February - April 1992. Details in station infosheet. And I'm very sorry for extremely slow QSL'ing, about a month ago we designed very nice QSL card under Ventura Publisher, now I have only its laser copy. One guy promised me to make needed number of copies as usual ways of copying are very expensive here. Suppose all will be done in about two weeks. But today's RWBI news is Listener Service establishing including appearance of Russian language RWBI Newsletter issued twice a month. It was extremely hard to reply to all letters to RWBI especially from C.I.S., now it'll be a little bit easier using text processing system... Another news - we change our nighttime 48 to 75 mb like a lot of European broadcasters. It's good to recall here that over two years ago a station called "Radio 75" started out with test relays of first Moscow independent FM stations arround 3920 with only 20-30 watts of power. Later they changed their 75 to 48 mb and renamed as RIOT Radio. And in a few months they became today's Radio Without Borders... Well, here's new RWBI schedule active from November: 23 - 05 MSK on the frequency of 3940 kHz at least 3 weekends a month. Parallel frequency on 48 or 40 mb possible as well as transmissions from another site. Last two hours beamed mostly to W.Europe & Scandinavia, they'll be able to be missing. Usual Inverted Vee half wave dipole... Finally times: MSK= UTC+3 for winter, UTC+4 for summer.

Next let's start the first part of our story about Russian mediumwave piracy which is very popular here. I would even say "low-frequency" because usually such stations operate outside of the mediumwave band: 1.6 - 3 MHz. I suppose they can be easily heard abroad especially powerfull ones (over 500 watts). For instance Dutch mediumwave pirates have regular catch here in Moscow at any time of year, sometimes their signals are very loud (s4 to 5). Being last year in the Baltic DXpedition near Riga city (Latvia) I had really great opportunity to know what's Dutch pirate activity on weekends. Station may play terrible music during a few hours, then simply sign off without any announcements. Sometimes stations jam each other or produce a strong disturbing whistle by their carriers. Or those endless Dutch QSO's... Probably Derek has been offended already. But I haven't mentioned yet stations like Radio Perlee, it's really great pleasure to listen in their broadcasts. If you omit such stations and add all kinds of modulation defects plus frequency-modulated "creaky" carriers and finally multiply all this by 100, you can imagine a picture that we have here in Russia. At every moment

RadioNolan

(during nighttime of course) switching on your receiver you may find at least ten different stations QSO'ing on whole range between 1.6 and 3 MHz except 160 meter amateur band, it's not used by pirates although some of them have own call-signs and active on 160 as HAM's as well. Probably the main reason of such a wide popularity of pirate QSO'ing in Russia is in restrictions of 160 legal operation. Indeed it's quite easy to obtain a licence for so called "4-th category" HAM station, it allows operation on 160 meters only with powers below 10 watts, but the question: where will you obtain needed though such a simple amateur transceiver? You're welcomed here to see our shops, you'll never find there something suitable for amateur radio including such primitives like valves or transistors, what can I say about amateur equipment... The result given: 90% of our HAM's operate using either homemade equipment or military one they managed to obtain. Latter is not so hard now as you may think. And great number of the elements for homebuilt equipment simply stolen - by amateurs themselves (usually they have a job on a big plant or factory) or by those who sell them on wellknown "radio markets" (the most known is in the part of Moscow called "Tushino", we visit it rather regularly). And I have to note here that situation before "Perestroika" was the very same. Clear, that not everyone is able to build own amateur TX or transceiver fit for HAM operation, plus limited power, overloaded band... You see now why our powerful AM pirates appear outside of the 160 mb. A little bit modified and retuned simplest receivers like "Selena" are used to hear a correspondent and homemade AM rigs on powerful tubes like "FY-50", "FK-71", "FY-81", "FY-74B". Latter allows to generate up to 5 kW RF. On mentioned radiomarket you have a large selection of such rather cheap powerful tubes, so I know nobody who would use valves like EL-84 (our analog 6M15M) or even 807's (F-807). Only for driver. Another advantage of such kind of QSO'ing is AM, it's relatively easier to synthesize it than SSB. However AM is not prohibited on 160 meters... Well, QSO'ing is the main purpose of existence of our pirates, so to say they rather operate near amateur 160's than near mediumwave broadcast band. But this neighbourhood is very essential. Why - I'll tell in the next PC. Now you may try to hear them not just on their frequencies but on harmonics as well: suitable all till 5-th. Especially 3.4 MHz.

Living here you may hear QSO'ing wherever it's possible: on FM and even on Moscow Wire Network (or Cable) after official closedown at 1 a.m.. A year ago pirate broadcasting appeared in Moscow on FM as well as... right, on Moscow Wire Network. I remember when I was 12 years old I tried to connect my LF amplifier to our town's Wire Network. But I never thought that it can be seriously. In South-East Moscow a station called "Home Radio" operates with their 500 watts LF on Wire Network for a few months. Over 10 people involved. 10,000 people potential audience. I met operator on a latest Moscow DX Meeting and was invited to visit their site. Wait for a story in the next issue. May be RWBI will give them an hour slot during intending 75 mb service.

We were quite surprised to hear about mysterious Radio Magic from last PC. What a shame for both me and Artiom... But the most confusing thing here that R.Magic's operator turned out to be a guy who corresponds with me for about two years and I knew about his plans of course. Although the station has not own shortwave transmitter yet RWBI have never been offered to make a few their relays. Unlike Merlin, Jolly Roger and Radio Waves Int'l. Latter one I know did relay R.Magic in August. As for their own rig, they're still going now to build it, may be next summer... But certainly not this year.

The question I would like to put on you all: what's your attitude to our only-relay stations with their programmes beamed to Western audience? Just QSL or something more? I think RWBI couldn't provide quality regular English programming that you would listen in with pleasure. So we do the local one. And in addition there's a great deal of pirate broadcasters in W.Europe but quite a few here...

Finally news. On August the 15-th Artiom visited RWBI studio and did his first RSR live followed by RWBI's live programme called "Radicafe" with a

can of West German beer (Western humanitarian aid it seems). During the programmes almost all 1-st edition of PC was reviewed except Swedish articles we're unable to read. It's a pity really that more than a half of the bulletin is in Swedish. Some words were said addressed to R.Magic's operator who was listening to our station. Unfortunately RWBI site visited extremely rarely due to rather long distance from Moscow. Finishing that RWBI live we were calling CQ to anyone on the band but no response. Twice we tried to hear announced R.Piranha's phone-in that date with Stefan's number but heard nothing at all. Amazing that our live were heard well in the Crimea using very simple Russian receiver with cut telescopic aerial. Damned longships.

Last summer RWBI had many hours of QSO'ing with a new station called RBSI - Radio Black Sea Int.. Their regular service not commenced yet but still expected. Good signal in Moscow on 6863 kHz LSB (when QSO'ing), must be heard abroad. Operates from the Crimea, 120 watt amplifier. One time RBSI tried to sign on on RWBI 48 mb frequency during special break made for them. But results were poor partially because of propagation. So they remain for a while on their old 6.8 MHz but no furher plans known. May be in the next issue... Try to receive them on Saturday evenings arround 19 UTC. Local appearance on MW possible. Address is the same as for RWBI or RSR. By the way I know about two other pirate projects in the Crimea, one called "Air Wind Radio" and already was on the air with about 7 watts loaded on a piece of wire on 9100 kHz AM.

Another QRP project known this time from Latvia called "Radio Cactus" irregular on air arround 3.8 MHz, about 1 watt of power. I suppose the rest of the information is out of date now...

Moscow station called VBWS "Radio Diamond" (VBWS is an abbreviation: "Voice of B... World Service", B... means a name of a district of Moscow I don't know what really as there're a few ones started with letter "B") hit the shortwave for the first time in September on 7520 kHz. Sure nobody heard them as their 50...100 watt rig didn't work properly. I don't know who built it but they're even unable to control anode current... After that all RWBI were asked to complete this work, probably we will. The station did appear on FM in Moscow last summer with 25 watts on OIRT band.

Ok, it seems that's all for today. I do hope you'll like this new PC's column, the first edited using my own text processing system which is really written by myself recently for a new Russian computer. So I'm waiting for your grades. Please forgive my limited English,

till the next time, FFFR & take care!

Igor Krilov.

First Free Radio Contest 1992 Info

During the period between the 19th of December, 1992, and the 3rd of January, 1993, the First Free Radio Contest 1992 will take place. Organizer is the DX-er Maik Köhler. The Contest fee is : DM 5.00 cash or 5 IRC (International Reponse Coupon). A non-cash price will be awarded to the three highest placings. Jury's decision final and three prices more raffle to all participants. (...many Free Radio Prices !!!!) Every participant will a Diploma.

Adress is :

for Contest
Conditions

Maik Köhler
P.O. Box - 133
D (O)-4351 Neugattersleben
Federal Republic of Germany

CURRENT PIRATE LIST 32

By Stefan Printz, Derek Taylor & Jean Burnell. Compiled by Stefan Printz

STATION NAME CONTACT ADDRESS

Short Wave

R Adelante	Stefan Printz, Kämärsvägen 13D:220, 22646 Lund, Sweden ♣
R Aries	Box 220342, 5600 Wuppertal 22, Germany
Alternative Short Wave	Box 130, 92504 Rueil Cedex, France
R Anorak	12 Rue du Pont, 25680 Rouge Mont, France
R Antenne West	Box 220342, 5600 Wuppertal 22, Germany
R Arena	Box 47, 7010 AA Gaanderen, Holland
Atlantic Hit R	Box 40185, 6504 AD Nijmegen, Holland
R Atlantis Int	Box 6105, 5190 Stolberg, Germany
R Atlantis SW	RASW, Box 220342, 5600 Wuppertal 22, Germany & RASW, Box 37, Ashton-under-Lyme, Manchester, England
R Barnacle	c/o Mutiny, Box 220342, 5600 Wuppertal 22, Germany
R Benelux	Benelux, Box 220342, 5600 Wuppertal 22, Germany
R Black Sea Int	c/o Artiom Prochorov, Box 29, Moscow 109444, Russia †
R Bluebird	Box 10, 9540 AA Vlagtwedde, Holland
R Bonanza	Box 82, 40101 Jyväskylä, Finland
R Brigitte	Brigitte van Gelder, Box 10, 7954 ZG Rouveen, Holland †
R Bristol	Unknown F
Britain R Int	32 Victoria Road, Salisbury, Wiltshire SP1 3NG, England Box 130, 92504 Rueil Cedex, France
Candyman R Int	Box 4046, 8600 GA Sneek, Holland
Capital R Int	c/o Fax, The Forge, Cranleigh, Surrey GU6 7BG, England
R Caroline	c/o Offshore Echo's Magazine, Box 1514, London W7 2LL, England
R Carrier Wave	Box 2188, 3000 CD Rotterdam, Holland
R Catapulte	Box 220342, 5600 Wuppertal 22, Germany
R Chaos	c/o California, Box 220342, 5600 Wuppertal 22, Germany
R Charline	Unknown G
Christian Pirate Bc Network	Stefan Printz, Kämärsvägen 13D:220, 22646 Lund, Sweden ♣
R City	Box 220342, 5600 Wuppertal 22, Germany
Clandestine R Society	Box 220342, 5600 Wuppertal 22, Germany
R Claymore	Box 220342, 5600 Wuppertal 22, Germany
R CLCG	Wilfried Meyer, Box 540101, 4100 Duisburg 54, Germany †
Concept FM	18 Glynne Street, Bootle, Liverpool L20 6DX, England
R Confusion	32 Victoria Road, Salisbury, Wiltshire SP1 3NG, England
R Costello	Unknown E
R Delta (A)	Box 41, 8080 AA Elburg, Holland
R Delta (B)	Box 65, 7260 AB Ruurlo, Holland
R Diablo	Box 82, 40101 Jyväskylä, Finland & Box 220342, 5600 Wuppertal 22, Germany
R Diana	Box 220342, 5600 Wuppertal 22, Germany
R Dückhead	21 Green Park, Bath, Avon BA1 1 HZ, England
R Dublin	Dublin 8, Ireland
R Dutch Boy	Box 13, 7710 AA Nieuwleusen, Holland
Dun Laoghaire Local R	Dun Laoghaire Local Radio, Dun Laoghaire, County Dublin, Ireland
R DX34	Box 100350, 7016 Gerlingen, Germany
R East Coast Commercial	RECC, K Flats, 9-11 Church Street, Cromer, Norfolk NR27 9ER, England †
R East Coast Holland	RECH, Box 536, 7900 AM Hoogeveen, Holland
The Edge	12 Rue du Pont, 25680 Rouge Mont, France
Electric Underground	Unknown E
Emerald R	Unknown E
R Equinoxe Int	REI, Box 130, 92504 Rueil Cedex, France
R Excellent	Box 220342, 5600 Wuppertal 22, Germany
R Europa Int	Via F Gerardi 6, 25124 Brescia BS, Italy
R Europe	Box 40185, 6504 AD Nijmegen, Holland
R Europe/101 Network	Via Davanzati 8, 20158 Milano, Italy P
European Pirate R	EPR, 14 Stone Row, Coleraine, County Londonderry BT52 1EP, Northern Ireland

Falcon R	c/o Fax, The Forge, Cranleigh, Surrey GU6 7BG, England
R Flat Land	Unknown <i>D</i>
Farmyard R	32 Victoria Road, Salisbury, Wiltshire SP1 3NG, England
R Fax	The Forge, Cranleigh, Surrey GU6 7BG, England
R Flat Land	Unknown <i>D</i>
46 R	Unknown <i>G</i>
R 48 (UK)	32 Victoria Road, Salisbury, Wiltshire SP1 3NG, England
R Francis Drake	Box 220342, 5600 Wuppertal 22, Germany
Freedom-FM	50 Greenside, Slough, Barks, England
R Freedom Int	Dept R, 67 Elm Row, Edinburgh EH7 4AQ, Scotland
Free R Service Holland	FRSH, Box 2727, 6049 ZG Herten, Holland †
Freesound R Int	FRI, Box 130, 92504 Rueil Cedex, France
R Freewave	Box 1218, Chelmsford, Essex CM1 4BD, England
Fruitcake R	32 Victoria Road, Salisbury, Wiltshire SP1 3NG, England
R Fusion Int	Media Team, Box 33, 1751 Halden, Norway †
R Gaga Int	Box 220342, 5600 Wuppertal 22, Germany
R Galaxy (Germany)	Box 220342, 5600 Wuppertal 22, Germany
R Gemini	Box 293, Merlin, ON N0P 1W0, Canada
R Geronimo	Box 220342, 5600 Wuppertal 22, Germany
R Gloria Int	Box 293, Merlin, ON N0P 1W0, Canada
Halloween R	32 Victoria Road, Salisbury, Wiltshire SP1 3NG, England
Harley Davidson	Box 221, 7700 AE Dedemsvaart, Holland <i>♡</i>
R Harmony	Box 1651, Frinton-On-Sea, Essex, England
R Helgoland	Box 59, 7260 AB Ruurlo, Holland
Hertfordshire Local R	Unknown <i>E</i> (phone 081-3692373)
Hit R Germany	Box 100350, 7016 Gerlingen, Germany
R Hot Cross Bun	c/o Mutiny, Box 220342, 5600 Wuppertal 22, Germany
House Music R	Box 1243, 6685 Schiffweiler, Germany
R Illegal	Box 386, 5900 AJ Venlo, Holland
Independent Sounds	Box 110226, 3400 Goettingen, Germany
International Relay Service	Box 130, 92504 Rueil Cedex, France
R Italia	Vicolo Volusio 1, 06049 Spoleto (PG), Italy <i>♂</i>
Jolly Roger R	JRR, Box 39, Waterford, Ireland †
R Joystick	Box 100812, 4330 Mülheim/Ruhr 1, Germany
R Karibu	Box 82, 40101 Jyväskylä, Finland
R Italia	Vicolo Volusio 1, 06049 Spoleto (PG), Italy <i>♂</i>
R Jimmy Int	Box 102, 7360 AC Beekbergen, Holland
KING R	c/o 10 Bromyard Crescent, Paulsgrove, Portsmouth PO6 3SP, England
R Kite	32 Victoria Road, Salisbury, Wiltshire SP1 3NG, England
KLA R	BM Nectar, London WC1N 3XX, England
R KNMS	Box 220342, 5600 Wuppertal 22, Germany
Laser Hot Hits	Box 1218, Chelmsford, Essex CM1 4BD, England
Level 48	Box 1243, 6685 Schiffweiler, Germany
Light Wale R	Unknown <i>I</i>
R Limit Int	Box 220342, 5600 Wuppertal 22, Germany
Live Wire R	LWR, 30 Pinewood, Ballybrack, Ireland †
R London	Box 293, Merlin, ON N0P 1W0, Canada
London Weekend R	50 Greenside, Slough, Berkshire, England
R Magic	RM, Box 1461, Perni 614036, Russia †
R Marabu	Box 220342, 5600 Wuppertal 22, Germany & Box 82, 40101 Jyväskylä, Finland
R Matilda	Box 220342, 5600 Wuppertal 22, Germany
R Mayday	RMD, Box 82, 40101 Jyväskylä, Finland † & RMD, Box 130, 92504 Rueil Cedex, France & RMD, Box 220342, 5600 Wuppertal 22, Germany
R Mercury	Box 84, 3417 ZH Montfoort, Holland
R Meteor	Box 82, 40101 Jyväskylä, Finland † & Box 220342, 5600 Wuppertal 22, Germany
Metsäradio	Box 82, 40101 Jyväskylä, Finland † & Box 220342, 5600 Wuppertal 22, Germany
R Mi Amigo	Box 220342, 5600 Wuppertal 22, Germany
Midlands Music R	MMR, c/o 135 Barks Drive, Norton, Stoke-on-Trent, Staffordshire ST6 8EX, England †
R Mike	Box 2188, 3000 CD Rotterdam, Holland
R Mirage	Box 220342, 5600 Wuppertal 22, Germany

R Mona Lisa.....Box 11, 7954 ZG Rouveen, Holland
 R Mutiny Int.....Box 220342, 5600 Wuppertal 22, Germany
 Nitrozone.....Box 130, 92504 Rueil Cedex, France
 R Nolan.....Box 10, 9540 AA Vlaardingen, Holland
 Norddeutsche Panikwelle.....Benny Santini, Postlagernd, 3167 Burgdorf, Germany †
 Nordlicht R.....Box 220342, 5600 Wuppertal 22, Germany
 Northern Ireland Relay Sce.....14 Stone Row, Coleraine, County Londonderry BT52 1EP, Northern Ireland
 R Northlight Int.....Unknown G
 R Nova Int.....Box 4427, 3006 AK Rotterdam, Holland
 R 101 Int.....Box 2, 4680 Gemmenich, Belgium
 R Orang Utan.....Box 114, 7040 AC 's Heerenberg, Holland
 R Orion.....c/o 6 Worcester Street, Wolverhampton, West Midlands WV2 4LD, England †
 Overflow International.....Box 1218, Chelmsford, Essex CM1 4BD, England
 Ozone Int.....Gary Lewis, 18 Shancastle Lawn, Quarry Vale, Clondalkin, Dublin 22, Ireland †
 R Pacman.....Box 103, 8120 AC Olst, Holland
 R Pamela.....Box 2425, 119 Anaheim, CA 92814-14895, USA
 R Pandora.....Unknown
 R Paradise.....Box 12059, 22012 Lund, Sweden
 Passion R.....Box 386, 5900 AJ Venlo, Holland
 R Peace In Action.....Box 220342, 5600 Wuppertal 22, Germany
 R Perfekt.....Box 220342, 5600 Wuppertal 22, Germany
 R Pionier.....Box 2188, 3000 CD Rotterdam, Holland
 R Piranha Int.....Stefan Printz, Kämnärvägen 13D:220, 22646 Lund, Sweden ♣
 Pirate Freaks Bc Service.....Box 386, 5900 AJ Venlo, Holland
 R Pluto.....Box 103, 8120 AC Olst, Holland
 R Pogo 104.....Box 220342, 5600 Wuppertal 22, Germany
 Power 48.....Unknown E
 R Pwt.....Unknown
 R Pythagoras Worldwide Int.....Box 48, 44 Cowley Road, Oxford OX4 1HZ, England
 R Rabbit Int.....Box 386, 5900 AJ Venlo, Holland
 Rainbow R Germany.....RRG, Box 202, 6440 Bebra, Germany †
 R Rebel Int.....Box 130, 92504 Rueil Cedex, France
 R Reboll 105.....Tommy, Box 1253, 7073 Lorch, Germany †
 R Recharge Int.....Box 1218, Chelmsford, Essex CM1 4BD, England
 R Reflex.....Box 59, 7260 AB Ruurlo, Holland
 R Ridiculous Int.....Box 1019, 2200 BA Noordwijk, Holland
 Right Wing R.....Box 82, 40101 Jyväskylä, Finland &
 Box 220342, 5600 Wuppertal 22, Germany
 Rocket 48.....Box 293, Merlin, ON N0P 1W0, Canada
 R Rodeo.....Box 72, 6640 AB Beuningen, Holland
 Romantic Space R.....Arty, Box 29, Moscow 109444, Russia †
 RTL V.....RTLV, Box 130, 92504 Rueil Cedex, France
 R Santana.....Box 46, 7160 AA Nede, Holland
 R Scanwood.....Box 82, 40101 Jyväskylä, Finland &
 Box 220342, 5600 Wuppertal 22, Germany
 Schaduwjager.....Box 578, 7900 AN Hoogeveen, Holland
 Shamrock R.....Box 39, Waterford, Ireland †
 R Silverbird Int.....Box 13, 7595 ZG Weerselo, Holland
 R Starline.....Box 220342, 5600 Wuppertal 22, Germany
 Station Sierra Sierra.....Unknown E
 Sky R.....Box 386, 5900 AJ Venlo, Holland
 Southern Music R.....SMR, Box 130, 92504 Rueil Cedex, France
 R Spectrum.....Box 130, 92504 Rueil Cedex, France
 Star Club R.....Box 220342, 5600 Wuppertal 22, Germany
 R Stella Int.....14 Stone Row, Coleraine, County Londonderry BT52 1EP, Northern Ireland
 Subterranean Sounds.....32 Victoria Road, Salisbury, Wiltshire SP1 3NG, England
 Süd West R.....Box 1243, 6685 Schiffweiler, Germany
 Sunshine R.....58 Rue Victor Hugo, 31800 Saint Gaudens, France
 Super Station.....Unknown E
 Tele R Stereo Roma.....P
 R Terminator.....Box 4046, 8600 GA Sneek, Holland
 R Titanic Int.....Box 220342, 5600 Wuppertal 22, Germany
 R Tower.....Box 19074, 3501 DB Utrecht, Holland
 TST Rock.....4 Minton Close, Mossley, Congleton. Cheshire CW12 3TD, England
 UK Good Music.....32 Victoria Road, Salisbury, Wiltshire SP1 3NG, England

UK Rc/o 6 Worcester Street, Wolverhampton, West Midlands WV2 4LD, England
 R Universum.....Box 220342, 5600 Wuppertal 22, Germany
 R Vanessa.....Box 386, 5900 AJ Venlo, Holland
 R Virginia.....Box 130, 92504 Rueil Cedex, France
 Voice Of Free Radio.....Box 82, 40101 Jyväskylä, Finland &
 Box 220342, 5600 Wuppertal 22, Germany
 Voice Of Love.....Unknown B
 Voice Of Techno.....Box 130, 92504 Rueil Cedex, France
 Voice Of The Goutsuffers.....Gloria, Box 293, Merlin, ON N0P 1W0, Canada
 Voice Of The Leek.....Unknown W
 Voice Of The Netherlands.....Box 669, 7900 AR Hoogeveen, Holland
 R Wahnsinn.....Box 220342, 5600 Wuppertal 22, Germany
 R Waves Int.....Box 130, 92504 Rueil Cedex, France
 R WBI Int.....Stefan Printz, Kämnärvägen 13D:220, 22646 Lund, Sweden ♣
 WBMX.....c/o 17 Barlborough Road, Clowne, Chesterfield, Derbyshire S43 4RA, England
 Wee Guy R.....Box 293, Merlin, ON N0P 1W0, Canada
 Weekend Music R.....14 Stone Row, Coleraine, County Londonderry BT52 1EP, Northern Ireland
 West German Pirate Org.....Box 220342, 5600 Wuppertal 22, Germany
 West & North Kent R (WNKR).....Box 220342, 5600 Wuppertal 22, Germany
 R Without Borders Int.....Igor, Box 29, Moscow 109444, Russia
 World Communications Service.....Box 130, 92504 Rueil Cedex, France
 Wrekin R Int.....WRI, 51 Eastwood Boulevard, Westcliff-on-Sea, Essex SS0 0BY, England †
 XMAS.....Box 11175, 1001 GD Amsterdam, Holland
 R Zenith Int.....GRS, BCM Box 558, London WC1N 3XX, England †

Medium Wave

Actief.....DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 R Alpenjager.....DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England
 Alpenkoning.....Box 221, 7700 AE Dedemsvaart, Holland
 Alpenkruiser R.....Box 6, 7918 ZG Nieuwlande, Holland ♡
 AM Rock.....Unknown E
 Antenna 2000.....Box 50, 41026 Pavullo, Nel Frignano, Modena, Italy ♡
 R Antonio.....DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Apollo.....Unknown D
 R Arena.....Box 47, 7010 AA Gaanderen, Holland
 Argos.....Unknown E
 R Aristona.....Box 78, 7710 AB Nieuwleusen, Holland
 R Arizona.....Box 403, 7600 AK Almelo, Holland ♡
 R Armada.....Box 9, 8150 AA Lemelerveld, Holland ♡
 Arimstar.....Unknown D
 R Arutz 7.....Bel-El, D N Mizrach Binjamin 90801, Israel
 Athena.....DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 R Atlantis.....Steve Bishop, 33 Beaumont Street, Liverpool 8, England †
 Baanbreker R.....Box 59, 7260 AB Ruurlo, Holland ♡
 Bamboe.....DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 R Barones.....Box 73, 7160 AB Nede, Holland ♡
 Barracuda.....DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 R Batranica.....Unknown Y
 Bavaria.....DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Bellvue.....Box 128, 9665 ZJ Oude Pekela, Holland ♡
 Berkenrode.....DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Beverwijk.....Unknown D (Beverwijk)
 R Bison.....Box 902, 3900 AX Veenendaal, Holland
 R Black Power.....Box 643, 7900 AP Hoogeveen, Holland
 R Black Rose.....DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 R Black Shadow.....Unknown D
 Blauwe Bulldog.....DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Blauwe Piraat.....Box 78, 7710 AB Nieuwleusen, Holland ♡ △
 Blauwe Rýger.....Unknown D
 Blauwe Vink.....DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Blauwe Vogel.....Box 20, 7894 ZG Zwarteveen, Holland
 Blonde Ale & Grýze Appie.....DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Blonde Anna.....DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Blonde Marie.....DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Blonde Piraat.....Box 669, 7900 AR Hoogeveen, Holland

R Blonde Weg Piraat DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Blonde Zeeman (A) DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Blonde Zeeman (B) Unknown D (Almelo)
 Bontekoe DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 R Boskabouter DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Bouwvakker (Veluwe) Unknown D
 Brandaris DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Bravo Whiskey Unknown D (Zwolle)
 Breker DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 R Bremen Unknown D (Delden)
 R Budapest DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 R Caballero DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Box 643, 7900 AP Hoogeveen, Holland
 R Caldonia Int Box 763, 3100 AT Schiedam, Holland
 R Calipso Box 8, 9684 ZG Finsterwolde, Holland ♡ ♣
 Calypso DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 R Carousel Unknown E
 R Carrier Wave Box 2188, 3000 CD Rotterdam, Holland
 R Casablanca Box 16, 8150 AA Lemelerveld, Holland
 Casablanca R Int Box 25, 7880 AA Emmer-Compascuum, Holland ♡
 Cassandra Unknown D (Amsterdam)
 Centraal Unknown D
 Commando Box 403, 7600 AK Almelo, Holland ♡
 Concordia (A) DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Concordia (B) Box 128, 9665 ZJ Oude Pekela
 R Cowboy Jimmy Box 25, 9636 ZG Zuidbroek, Holland
 R Curacau DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Daiwa Box 102, 7361 AC Beekbergen ♡
 R Delmare Int/Dalma Box 536, 7900 AM Hoogeveen, Holland ♡
 R Delta Box 65, 7260 AB Ruurlo, Holland
 Delta Bud DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 R Derby Box 14, 7916 ZG Elim, Holland
 Zender Dikke Betta (DB) Box 29, 7475 ZG Markelo, Holland
 Dokter Ketellapper Unknown D (Groningenland)
 Donkere Boervaart DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 R Draaggolf Box 2188, 3000 CD Rotterdam, Holland
 Drenthina DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Drentse Kluizenhaar Unknown D (Klazienaveen)
 R Dublin Dublin 8, Ireland
 The Edge Unknown E
 Egerlander DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England △ ♣
 R 807 Box 341, 3770 AH Barneveld, Holland ♡ △
 R Eolica Unknown H
 Eppolino DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Europa Box 40185, 6504 AD Nijmegen, Holland ♡
 R Eurowave Box 16, 8150 AA Lemelerveld, Holland
 R 538 DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Flamingo Box 232, 3770 AE Barneveld, Holland
 R Flandria Box 339, 8200 AM Lelystad, Holland
 Fledermaus DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Frisco R DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Future R Unknown E
 Future Of The Netherlands Box 4046, 8600 GA Sneek, Holland ♡
 Gela Roos DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England △ ♣
 R Golfsbreker Box 107, 7580 AC Losser, Holland
 R Greenland Box 3561, 7500 DM Enschede, Holland
 Grote Beer DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Grize Wolf DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Hamburg DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Harley Davidson Box 221, 7700 AE Dedemsvaart, Holland ♡
 R Havanna DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 R Hawaii DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Heideroos DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Hemmelink DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Hennie Veldwijk Box 171, 8100 AD Raalte, Holland ♡
 Henny Westerbeek Unknown D (Hoogeveen)

High Energy Unknown D (Rotterdam)
 R Hollandia Int Box 41, 8080 AA Elburg, Holland
 R Holland Int Box 669, 7900 AR Hoogeveen, Holland
 R International Corsa Porta Palio 36, 37122 Verona, Italy ♡
 Interpol Box 13, 7595 ZG Weerselo, Holland ♡
 Jannie Unknown D
 Jansen DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 R Japie de Blitzkikker Box 13, 7595 ZG Weerselo, Holland ♡
 Japie de Sloper DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Japie de Stoelenmatter DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Zender Johan DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♦ ♣
 Joker Box 4046, 8600 GA Sneek, Holland ♡
 Jopie de Sloper DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Jumbo Unknown D
 R Kallios Unknown H
 R Kanibaal DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 R Karel Doorman (KD) Box 171, 8100 AD Raalte, Holland ♡
 R Kippenboer Unknown D (Eemshaven)
 KLAS 17 Rahagey Road, Aughnacloy, County Tyrone, Northern Ireland
 Klarenveld Unknown D
 Kleine Man Unknown D (Elburg)
 Kleine Mexico DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Kleine Sloper DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Kontakt DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Kootwijk DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 De Koppensneller DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Korak R Box 134, 3780 BC Voorthuizen, Holland
 R Korschala Unknown J
 R Kristal Box 224, 7440 AE Nijverdal, Holland
 De Kruik DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Kung Fu DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 R London 21 Green Park, Bath, Avon BA1 1HZ, England ♡
 Lordje Wanhoop DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Luxemburg DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Magneel Unknown D (Veluwe)
 R Majhantec Unknown J
 Zendster Manuela Box 186, 7240 AD Lochem, Holland ♡
 R Mariska DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 R Marjanne Box 6, 7918 ZG Nieuwlande, Holland ♡
 Marokko Box 26, 7914 ZG Noordscheschut, Holland
 Mascotte DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Matabusita Unknown H
 R Merkurius Box 103, 8120 AC Olst, Holland ♡
 R Merseywaves B Williams, 48 Hertford Road, Wallasey, Merseyside L45 7PX, England †
 R Meteoor Box 71, 7720 AB Delfsen, Holland
 Mexicano Box 86, 7150 AB Eibergen, Holland
 R Mexico DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Mijnwerker DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 R Minerva DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 R Mirage Box 220342, 5600 Wuppertal 22, Germany ♡
 Mister X DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Monte Carlo DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Mustang Unknown D (Emmen)
 Nachtjager Unknown D
 Nachtzuster DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 R Nadezhda Unknown R (Moscow)
 Nietbekend Unknown D
 R Nolan Box 10, 9540 AA Vlagtwedde, Holland
 R Nootigedacht (A) Box 186, 7240 AD Lochem, Holland ♡
 Nootigedacht (B) DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Noorderster DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Noordlicht DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 R Noordzee Box 157, 7670 AD Vriezenveen, Holland
 R Noorman DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Nordmende DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣

R North Box 846, Ballymoney, County Antrim, Northern Ireland
 North Atlantic R Bridge Street, Cardonagh, County Donegal, Ireland
 North Coast R 79 Kestrel Road, Moreton, Wirral, Merseyside, England
 Nova Cura DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 R Nova 4 Box 29, 7950 AA Staphorst, Holland ♡
 R Olieman DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Olympia DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 R Olympiakos Unknown ♦
 Ome Gerrit DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Ome Guus Box 26, 7914 ZG Noordscheschut, Holland
 Ome Jan (Ruurlo) DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Ome Jope (Ruurlo) DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Ome Willem DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 R Onbekend Box 24, 7260 AA Ruurlo, Holland
 Oom Delta DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 R Orang Utan Box 114, 7040 AC 's Heerenberg, Holland
 Zendster 'Oude Dak DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Oude Frans Zender Unknown ♦ (Delden)
 R Paloma Unknown ♦
 R Pamela Box 2425, 119 Anaheim, CA 92814-14895, USA
 Panter DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Paradysvogel Box 93, 9900 AB Appingedam, Holland
 Parasol DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Patatboer Box 4046, 8600 GA Sneek, Holland ♡
 Pedro R Box 107, 7580 AC Losser, Holland
 R Pelikaan Box 166, 7240 AD Lochem, Holland
 R Pelsjager Box 454, 7000 AL Doetinchem, Holland
 R Pepper Box 103, 8120 AC Olst, Holland ♡
 R Perlee 12 Dorman Road, Preston, Lancs PR2 6AS, England △
 Piccolo DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Piepzender Box 13, 7710 AA Nieuwleusen, Holland
 Pinocchio Unknown ♦
 R Pionier Box 2188, 3000 CD Rotterdam, Holland
 R Pirana Box 206, 7570 AE Oldenzaal, Holland ♡
 Piraten Team Box 13, 7595 ZG Weerselo, Holland ♡
 Polderboer DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Polydor Box 11, 7954 ZG Rouveen, Holland ♡
 Poolster DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Populair Box 157, 7670 AD Vriezenveen, Holland
 R President Box 4046, 8600 GA Sneek, Holland ♡
 Proton Unknown ♦
 RBT DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Regenboog Unknown ♦
 Rentmeester Unknown ♦ (Friesland)
 Rentenier DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Riverside 166 Spencer Road, Waterside, Ireland
 Rode Rover Box 11, 7954 ZG Rouveen, Holland
 Romantic Space R Arty, Box 29, Moscow 109444, Russia ♡ †
 Rooie Piraat DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Rot R 109 Gt Merseystreet, Liverpool 5, England
 Rover Box 403, 7600 AK Almelo, Holland ♡
 Sallandia • Unknown ♦
 R Santana Box 73, 7160 AB Neede, Holland
 R Sapporo Box 341, 3770 AH Barneveld, Holland ♡
 R Schaduwjager Box 578, 7900 AN Hoogeveen, Holland
 R Scotland Box 85, 9410 AB Beilen, Holland ♡ △
 R Seagirl DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Sirius DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 R Sistema Box 15, Serpuhov 203, Moscow Oblast 142203, USSR
 Snoeshaan Unknown ♦ (Groningen)
 Soto/Ome Soto DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Spaansevlieg • DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 R Spanningzoeker Box 578, 7900 AN Hoogeveen, Holland ♡
 R Star Country 6 Arthur Villas, Armagh, Ireland
 Steerenboog Unknown ♦

De Stem Unknown ♦ (Ameland)
 R Stormvogel DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England △ ♣
 Straaljager DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Stroper DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Studio 4 Unknown ♦
 R Succes DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Swinging R Johnny Box 73, 7160 AB Neede, Holland ♡
 R Sylvania (A) (Zwolle) Unknown ♦
 R Sylvania (B) (Almelo) DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♦ ♣
 R Talisman Box 107, 7580 AC Losser, Holland ♡
 Tamboer Box 23, 7914 ZG Noordscheschut, Holland ♡
 R Telstar Box 59, 7260 AB Ruurlo, Holland ♡
 Test Piraat DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Test Zender Unknown ♦ (Veluwe)
 R Texas DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 R Texta Cowboy Box 78, 7710 AB Nieuwleusen, Holland ♡
 R Thoreline DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Tobias DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England △ ♣
 R Toekomst Box 4046, 8600 GA Sneek, Holland ♡
 Tolfaans Zender Unknown ♦ (Delden)
 Tompoes Box 85, 9410 AB Beilen, Holland ♡
 Toni Macaroni Box 103, 8120 AC Olst, Holland
 Toonje DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 R Torenvalk Int Box 94, 7038 ZH Zeddam, Holland
 Toronto Unknown ♦
 R Toulouse Int (A) DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England △ ♣
 Toulouse (B) DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 R Trekvogel Unknown ♦
 R Trobadoer DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Tubantia DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 R Turbojager DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Twentsche Rakker DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Twentse R Unie DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Tydbrekker R Box 186, 7240 AD Lochem, Holland ♡
 Union Box 357, 7900 AJ Hoogeveen, Holland
 Urenco Unknown ♦
 R Valencia DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Valentino Box 221, 1560 AE Krommenie, Holland ♡
 Valkenburg DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Vatican Unknown ♦
 Vedena Unknown ♦ (Hoogeveen)
 Verona (A) Box 178, 7240 AD Lochem, Holland
 R Verona Int (B) Box 8, 9684 ZG Finsterwolde, Holland ♡
 R Veronica 82 Woolpack House, Kettering Road, Enfield, Middlesex EN3 6UU, England
 Vliegenvanger Box 78, 7710 AB Nieuwleusen, Holland
 Voice Of Hope Unknown
 Voice of Peace Senior DJ, Box 4399, Tel Aviv, Israel
 Vossenjager DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Vriendschap DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 De Vries Box 122, 7160 AC Neede, Holland
 Vry Drenthe Unknown ♦ (Hoogeveen)
 Vroegevogel DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Vrolyke Tuinman Box 124, 8090 AC Wezep, Holland
 Waldolala DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Watergeus DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Waterman DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Weduwe DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Weekend Music R 14 Stone Row, Coleraine, County Londonderry BT52 1EP, Northern Ireland
 Welbekend Unknown ♦ (Friesland)
 Westerman Unknown ♦
 West & North Kent R Box 220342, 5600 Wuppertal 22, Germany
 De Wilde Unknown ♦ (Hollandscheveld)
 Witte Gans DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Witte Kat Unknown ♦
 Yslkker Unknown ♦

Ysselstijn Unknown D (Veluwe)
 Yzeren Man Unknown D (Veluwe)
 Zeetýger DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Zeewolf Box 26, 7914 ZG Noordscheschut, Holland
 Zender Zerius Box 578, 7900 AM Hoogeveen i Holland
 Zoef de Haase DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Zoeklicht Unknown D
 Zonnedauw Unknown D (Twente)
 Zondevон DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Zwarte Bizon DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♦ ♣
 Zwarte Boer Unknown D (Veluwe)
 Zwarte Boeskool DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Zwarte Deur Unknown D (Hoogeveen)
 Zwarte Jan Unknown D
 Zwarte Jopie DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Zwarte Madonna DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 R Zwarte Non (Black Nun) Box 122, 7160 AC Neede, Holland ♡
 Zwarte Panter DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣
 Zwarte Zeeman Unknown D
 Zwarte Zigeuner DPRS, 12 Dorman Road, Preston, Lancs PR2 6AS, England ♣

NORTH AMERICAN PIRATE STATIONS

STATION NAME	CONTACT ADDRESS
Action R	Box 493, Boystown, NE 68010, USA
Alliance For Free R	Box 605, Huntsville, AL 35804, USA
Alternate Elvis	Box 452, Wellsville, NY 14895, USA
R Anarchy	Box 109, Blue Ridge Summit, PA 17214, USA
R Audibon	Ralph Brandi, 128 Greenoak Blvd., Middletown, NJ 07748, USA
R Azteca	Box 452, Wellsville, NY 14895, USA & Box 109, Blue Ridge Summit, PA 17214, USA
R Beaver	Box 293, Merlin, ON N0P 1W0, Canada
R BLANDX	Box 109, Blue Ridge Summit, PA 17214, USA
Canadian Bootlegger	Box 452, Wellsville, NY 14895, USA
The Car Show	Box 452, Wellsville, NY 14895, USA
CFBN	Box 452, Wellsville, NY 14895, USA
CGWN	Box 80033, Burnaby, British Columbia B5H 3X1, Canada
Chicago Tunnel Company	Michael Kopp, 6246 North Wayne, Chicago, IL 60660, USA
CKLW	Box 109, Blue Ridge Summit, PA 17214, USA
CNBS	Box 452, Wellsville, NY 14895, USA
CSIC	Box 109, Blue Ridge Summit, PA 17214, USA
The Deadly Nightshade	Box 25302, Pittsburgh, PA 15242, USA
Defiance 90	Box 109, Blue Ridge Summit, PA 17214, USA
Desert Network	Box 69, Wolf Run, OH 43970, USA
Down East R	Box 109, Blue Ridge Summit, PA 17214, USA
R Drift	Box 109, Blue Ridge Summit, PA 17214, USA
East Coast Beer Drinker	Box 109, Blue Ridge Summit, PA 17214, USA
East Coast Music R	Box 452, Wellsville, NY 14895, USA
EBO R	Box 452, Wellsville, NY 14895, USA
Esoterica	Box 146, Stoneham, MA 02180, USA
R Flattus	Box 293, Merlin, ON N0P 1W0, Canada
R Flatulence	Box 109, Blue Ridge Summit, PA 17214, USA
R Fluffernut	Box 293, Merlin, ON N0P 1W0, Canada
R Fornication	Box 69, Wolf Run, OH 43970, USA
4th Of July R	Box 109, Blue Ridge Summit, PA 17214, USA
R Free America	Box 452, Wellsville, NY 14895, USA
R Free Euphoria	Box 452, Wellsville, NY 14895, USA
R Free New England	Box 452, Wellsville, NY 14895, USA
R Free New York	1748 70th Street, Brooklyn, New York 11204, USA
R Free Massachusetts	Box 293, Merlin, ON N0P 1W0, Canada
R Ganymede	Box 293, Merlin, ON N0P 1W0, Canada
R Garbanzo	Box 452, Wellsville, NY 14895, USA
He Man R	Box 109, Blue Ridge Summit, PA 17214, USA
Hit Parade R	Box 452, Wellsville, NY 14895, USA
Hope R	Box 109, Blue Ridge Summit, PA 17214, USA

The Jersey Devil Box 109, Blue Ridge Summit, PA 17214, USA
 KBLU Box 123082, Fort Worth, TX 76121, USA
 KGUN Box 109, Blue Ridge Summit, PA 17214, USA
 KICK Box 605, Huntsville, AL 35804, USA
 KMCR Box 109, Blue Ridge Summit, PA 17214, USA
 KNBS Box 452, Wellsville, NY 14895, USA
 KQRP Box 452, Wellsville, NY 14895, USA
 Kranker R Int Box 25302, Pittsburgh, PA 15242, USA
 KROK Box 452, Wellsville, NY 14895, USA
 KULP Box 109, Blue Ridge Summit, PA 17214, USA
 KUNT Box 3511, La Mesa, California 91944, USA
 KUSA Box 605, Huntsville, AL 35804, USA
 Liberty Box 452, Wellsville, NY 14895, USA
 Radio Lymph Node Int Box 40554, Washington DC, 20016, USA
 R Mauser Worldwide Box 55553, Trenton, NJ 08638, USA
 R Mexico Int Box 109, Blue Ridge Summit, PA 17214, USA
 Midnite R Box 109, Blue Ridge Summit, PA 17214, USA
 Mystic Voice of the Western Prairies Box 109, Blue Ridge Summit, PA 17214, USA
 R New York Int Box 270, Flushing, New York 11352, USA
 North Jersey Coast R Box 293, Merlin, ON N0P 1W0, Canada
 Omega R Box 109, Blue Ridge Summit, PA 17214, USA &
 Box 452, Wellsville, NY 14895, USA
 One Voice R Box 109, Blue Ridge Summit, PA 17214, USA
 Peterbilt R Box 69, Wolf Run, OH 43970, USA
 Pirate R Boston Box 146, Stoneham, MA 02180, USA
 R Politzania Box 109, Blue Ridge Summit, PA 17214, USA
 Rastafarian R Box 25302, Pittsburgh, PA 15242, USA
 RBCN Box 17354, Atlanta, GA 30616, USA
 Revolutionary Voice Of Plainville Box 109, Blue Ridge Summit, PA 17214, USA
 RKNA Box 452, Wellsville, NY 14895, USA
 Saudi Sam Box 69, Wolf Run, OH 43970, USA
 Samurai R Box 109, Blue Ridge Summit, PA 17214, USA
 R Scottish Montreal Box 109, Blue Ridge Summit, PA 17214, USA
 Secret Mountain Laboratory Box 452, Wellsville, NY 14895, USA
 Tube R Box 109, Blue Ridge Summit, PA 17214, USA
 United World R Box 452, Wellsville, NY 14895, USA
 R USA Box 452, Wellsville, New York 14895, USA
 Voice of Bob Box 452, Wellsville, NY 14895, USA
 Voice Of Bono Box 452, Wellsville, NY 14895, USA
 Voice Of Gilligan Box 605, Huntsville, AL 35804, USA
 Voice Of Intoxication Box 452, Wellsville, NY 14895, USA
 Voice Of Laryngitis Box 452, Wellsville, NY 14895, USA
 Voice Of The Loon (WVOL) Box 452, Wellsville, NY 14895, USA
 Voice of the Night Box 11425, Trenton New Jersey 08620, USA
 Voice Of Oz Box 452, Wellsville, NY 14895, USA
 Voice Of The Purple Pumpkin Box 109, Blue Ridge Summit, PA 17214, USA
 Voice of Shakerag Box 17354, Atlanta, GA 30616, USA
 Voice Of Stench Box 109, Blue Ridge Summit, PA 17214, USA
 Voice Of The Very Last Days Box 109, Blue Ridge Summit, PA 17214, USA
 Voice Of Tomorrow Box 314, Clackamas, OR 97015, USA
 WAO Box 109, Blue Ridge Summit, PA 17214, USA
 WARI Box 452, Wellsville, NY 14895, USA
 WAZU Box 452, Wellsville, NY 14895, USA
 WBNY Box 40554, Washington DC, 20016, USA
 WBZA Box 452, Wellsville, NY 14895, USA
 WCYC Box 11425, trenton, NJ 08620, USA
 WDRR Box 452, Wellsville, NY 14895, USA
 WFU2 Box 109, Blue Ridge Summit, PA 17214, USA
 WGBR Box 452, Wellsville, NY 14895, USA
 WGNK Box 452, Wellsville, NY 14895, USA
 WHDA Box 452, Wellsville, NY 14895, USA
 WHIP Box 109, Blue Ridge Summit, PA 17214, USA
 WHO Box 452, Wellsville, New York 14895, USA
 WILD Box 109, Blue Ridge Summit, PA 17214, USA
 Wire Line R Box 109, Blue Ridge Summit, PA 17214, USA

Witch City R Box 452, Wellsville, NY 14895, USA
 WKIK Box 452, Wellsville, NY 14895, USA
 WKZP Box 109, Blue Ridge Summit, PA 17214, USA
 WLIS Box 109, Blue Ridge Summit, PA 17214, USA
 WMAD Box 452, Wellsville, NY 14895, USA
 WN0T Box 109, Blue Ridge Summit, PA 17214, USA
 R Wolf Int Box 25302, Pittsburgh, PA 15242, USA
 WORK Box 452, Wellsville, NY 14895, USA
 WRAR Box 605, Huntsville, AL 35804, USA
 WREC Box 452, Wellsville, NY 14895, USA &
 Box 109, Blue Ridge Summit, PA 17214, USA
 WRTR Box 452, Wellsville, NY 14895, USA
 WSKY Box 452, Wellsville, NY 14895, USA
 WSRN Box 293, Merlin, ON N0P 1W0, Canada
 WVOL Box 452, Wellsville, NY 14895, USA
 WVEO Box 543, Chesapeake Beach, VA 20732, USA
 WYMN Box 452, Wellsville, NY 14895, USA
 XENUS Box 452, Wellsville, NY 14895, USA
 XERK Box 25302, Pittsburgh, PA 15242, USA

PACIFIC PIRATES

R G'day Box 2474, Boroko, N.C.D., Papa New Guinea
 Kiwi R Box 1437, Hastings, New Zealand

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 † - DON'T PUT THE STATION NAME ON THE ENVELOPE!
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 E - ENGLISH PIRATE
 F - FINNISH PIRATE
 G - GERMAN PIRATE
 H - GREEK PIRATE!
 P - ITALIAN PRIVATE STATION
 R - RUSSIAN PIRATE!
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THE SCANDINAVIAN FREE RADIO MAGAZINE

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SAMPREN 1993

Pirate Connection har kommit med i samprenumerationsprojektet som är ett projekt av de Nordiska DX-tidningarna. Meningen men det här är helt enkelt att du ska slippa betala dina prenumerationavgifter till en massa konton och istället kunna betala dina pengar till samma konto. Så skicka pengarna till vårt postgirokonto 690708-2710 för dom tidningar du önskar så får du senare tidningen automatiskt. Här följer en kort översikt om dom andra deltagande tidningarna:

EA Eter-Aktuellt utkommer 10 gånger per år, varav två dubbelnummer. Minst 48 sidor, i genomsnitt 56. Varje nummer innehåller material för såväl nybörjaren, programlyssnaren och erfaren DX-aren. Ett antal stående spalter finns för nybörjaren och programlyssnaren och för specialområden som LA, NA, teknik etc. Dessutom finns en del artikelmaterial och naturligtvis sedvanliga tipsspalter. Provex kostnadsfritt från Eter-Aktuellt, Box 3108, 103 62 Stockholm. Medlemskap i SDXF, inkl. Eter-Aktuellt, kostar 1993 SEK 145.

OA On Air innehåller stående spalter som Tipsextra (svårare tips), Network (tips för programlyssnare och nybörjare), FM-TV-spalten, Pirat-spalter, Värt att veta (nyheter), QSL-Skörden, Svenska från utlandet, Orientexpressen (Asien DX), Teknik-spalten, Djungelexpressen (Afrika-DX), Encyklopedia (mediaspalt), Populärt på kortväg (spalt för programlyssnare), Postala prylar (tips på intressanta tidningar, böcker, listor, osv). Artikelmaterialet är också omfattande och intressant. SEK 115

DXN DX-News fra DX-Listeners Club, utkommer 10 ganger i året. Kort trykningstid gör att vi bringer rykende ferske tips och nyheter. 40-50 sidor med fyldige tipsspalter og aktuelt artikelstoff. Specialområder: UK og Sør Amerika. All tekst er på norsk. SEK 85

FQN Tidningen Frekvensnytt (FQN) utkommer med 10 nr/år med ett genomsnittligt sidantal på 40-44 sidor. FQN innehåller tips- och QSL-spalter, DX-Nytt Special, Teknik, och Specialartiklar av hög klass. Frekvensnytt är ett teamarbete mellan de aktivaste DX-arna inom FSDXF. Presslägningstiden har fått mycket kort, vilket gör att tipsen och nyheterna ännu är heta när de når läsarna. SEK 120

DIS Distance utkommer var 14:e dag under perioden oktober-mars, som månadstidning i övrigt med ett litet uppehåll på sommaren. Speciellt inriktat på MV-DXing med tipsspalter innehållande tips med kommentarer, samt info- och QSL-spalter givetvis. Nu och då även små artiklar av olika slag + lite klipp o dyl. Även KV- och FM-tips får utrymme. Nordisk hörightslista över MV-loggningar ges ut varje år. SEK 260

DXK Finskspråkig DX-tidning med stora delar av materialet på engelska (bl a nyhetsspalten) Ibladd också svenska språkigt material. Mycket omfattande artikelmaterial. Loggningar etc är lätt att förstå fastän man inte kan finska. Nordens layoutmässigt proffsigaste tidning! SEK 195

DXF DX-Fokus udkommer 12 gange årligt. Dobbeltal er yderst sjældne. Sidetallet varierer mellem 24 og 56; gennemsnitlig 36 sider pr. nummer. DX-F har flg. faste spalter: "DX-nyt" med absolut seneste DX-nyheder fra bl.a. WBI (BBC Monitoring Service), "Tips" med medlemernes log's på MB, KB samt ikke mindst FM og TV, "Pirat-nyt" med log's og nyheder, "QSL-Hjørnet" der er en lille spalte, "Lokalradionyt" med aktuel dækning af de danske nærradioer og af og til "Noget at lytte til" med program-tips och "Satellit-nyt" med nyheder om specielt musik-radioerne. Derudover er der en del artikel-stof, bl.a. om besøg på radiostationer. SEK 150

PC PC är skandinaviens enda DX-tidning som enbart belyser piratradio. Innehåller 10-sidig adresslista med alla radiopirater, exklusiva reportage om piratstationer, intervjuer, info om det senaste på piratfronten, spalt av MV-experten Derek Taylor, spalt om Nordamerikansk piratradio, teknikspalt, debatter & mycket mer! SEK 120

DX-ING DUTCH PIRATES ON MEDIUM WAVE

By Stefan Printz & Derek Taylor, Third edition

Introduction

The Dutch pirates who operate on the 186 metre band are quite a well-known "phenomenon". However, knowledge of these stations is almost non-existent amongst most DX-ers and there is hardly any publicity of them at all in the DX- & Free Radio magazines. To remedy this fact, we will now take a close look at the MW pirate scene and provide you with the most essential details which are important to be aware of when DX-ing the MW-pirates from Holland. Of course there are pirates broadcasting from other countries such as the United Kingdom, Greece and even the USSR, but for the purpose of this article we will concentrate on stations from Holland only.

A brief history

The first Dutch pirate transmitter was built around 1915 (!) and the operator is known all over Holland. The transmitter is on show at a museum in Den Haag. As far as we know, there were only a few pirates before World War 2. At the end of the war, however, many of the American and French army transmitters were put into circulation all over Holland, paving the way for many people to start up their own stations. At this time, the pirates provided the audience with Dutch folk music and this format has mainly been used ever since, as the legal stations never have provided with this kind of service. Jumping three decades to the 70's, a new kind of pirates popped up on the 227 metre band (1300-1330 kHz), usually called "international broadcasters" as they had broadcasts in English dedicated not only to a local audience, but also to DX-ers all over Europe.

For several years, the activity on 227 was very intense and many of the stations became very popular. Among those, to mention a few, were Radio Coralfisher, Radio Hawaii, Radio Tom Cat and Radio Nolan. The latter one is still active and he recently told us that he could get around 100 letters for only a 1 hour broadcast - a figure that most pirates of today just can dream of! In the beginning of the 80's, ordinary BC-stations began occupying some of the 227 metre frequencies, leaving no space for the

MW pirates to broadcast on and consequently they left the airwaves, one by one. A few years later, however, new frequencies were found in the MW band and the international pirates revived, mainly with broadcasts on 1508 kHz.

Radio Orang Utan was the very first station that used 1508 kHz. This was in March 1985 and 1508 kHz turned out to be a very good and clear frequency. Just a few months later, several other international pirates also could be heard here. One of the most active stations besides Radio Orang Utan was **Radio Torenvalk** who also used 1094 kHz for their regular transmissions. For some reason these frequencies were abandoned after only 2 years and those stations who were left went back to the 186 metre band and some even became SW-stations. On the 1st of April this year, new navigation stations from Scheveningen in northern Holland began broadcasting on the 186 metre band and their Morse code interference have made reception of Dutch pirates in the frequency range 1610-1620 kHz very, very difficult. Consequently, the 186 metre band has undergone a dramatic change. Most of the Dutch MW pirates are now to be found in the very narrow frequency range of 1604 to 1610 kHz. Although a few can still be heard on other frequencies, reception is very difficult, if not impossible. The results of all this interference seemed at first to be very bad news indeed, and in fact, for the first month or so after April, 186 metre band reception was pretty hopeless.

However, the pirates are a pretty resilient bunch and some very interesting developments have resulted from the chaos. The frequency of 1509 kHz has come alive with several international pirates doing broadcasts here. The most active stations at present here are **Radio Perlee**, **Radio Pirana** and **Radio Barones**. Several more stations are planning to do tests on 1509 kHz, so remember to check this frequency often while you're tuning around. Also, it is now possible to leave your radio tuned around 1607 kHz area and hear several stations signing on and off during an evening - a bit like the old 227 metre days with the 1325 kHz frequency. Only a handful of stations now operate in this part of the band,

since it's hard to receive the pirates or to follow QSO's. However, all is not lost, as most of the previous occupants have now moved and can be heard mostly between 1604 and 1610 kHz.

General

By medium wave, we usually refer to stations operating on the 186 metre band, that is the range 1605 to 1640 kHz. The frequencies between 1607 and 1620 kHz are most commonly used, though. There are also a few pirates that operate lower down the MW band, e.g. 1200, 1400, 1420 and 1500 kHz, but these are almost exclusively low power daytime locals and they can hardly be heard from outside a local area. There are an enormous number of pirates in Holland, but most of them broadcast locally on the FM-band. However, over the past years MW activity has increased considerably due to the overcrowded state of the FM band in many areas in Holland and many operators are now turning to MW for their programmes.

Basically there are three types of Dutch pirate operators. First we have the already mentioned international stations who usually have a programme format similar to the SW pirates (pop/rock music, jingles and announcements). In the second category we have the so-called "zender amateurs", who provide a service of Dutch folk music. They also often make QSO-contacts, in which two or more stations give signal strength & modulation quality reports to each other. A QSO starts with two stations initially and often more stations come along with it, which sometimes can develop to involve anything up to seven or even more stations. Lastly we have the low power stations whose main interest is to play music to a local audience only. There are also mixtures of these categories, e.g. it's rather common that some of the pirates make international broadcasts as well as making Dutch folk music programmes and QSO-ing.

The Dutch pirates can be heard daily all year round. The best time to listen out for them is from around 17 to 24 UTC and sometimes even later. At this time the MW band is a hive of activity with many of the low power stations. On weekends activity increases dramatically and stations can virtually be heard continuously 24 hours a day. The few international broadcasters can mostly be heard on Saturday nights at 22-02 UTC, although other days and times are used too.

Listening and reporting

When DX-ing the Dutch pirates, listen for tune up whistles and strong open carriers all over the band. Many surprise stations can be heard this way and can often lead to some lengthy QSO's. Now and again you will hear announcements between the Dutch folk music records so listen for the station identification. Also a phone number might be given out and even an address. But it's not much use telephoning a Dutch pirate unless you can give a verbal Dutch report and be understood. You might have just heard an identification and location given in perfect English, but this is probably the only English he or she knows, having repeated this parrot fashion for many years! One or two pirates do speak fluent English, but the majority do not. When a station has been on the air for a while with a music programme and announces a close-down, this is the time to listen very carefully. Check all frequencies as more often than not one, two or possibly three stations will be waiting to give him a report.

Most stations you will hear have a splendid modulation quality, but a number of the pirates sometimes have a terribly distorted modulation which often makes it impossible to decipher the speech. One way to help matters is to use an amplified audio and a bandwidth filter connected between your receiver and loudspeaker or headphones. The improvement is often dramatic! Another problem with listening to the Dutch MW pirates is the frequency drift. Quite a number of them use very old transmitters which continue to drift even when they've been on the air for some time. However, more and more of them are now using crystal control and frequency drift is eliminated.

There are quite a few difficulties when it comes to reporting the Dutch MW pirates. First of all, there are many stations who rarely announce any address or phone number and some of them may not be interested at all in reception reports. Most of these stations belong to the third category (local low power operators) and if you do hear one of them, usually the only way to contact them is to rely on the goodwill of a pirate in the neighbourhood and ask him to forward your report to the station in question.

The best way by far to send a report to a Dutch pirate is through a personal letter. Report forms might do for most international stations but you should always add some personal details. Try to

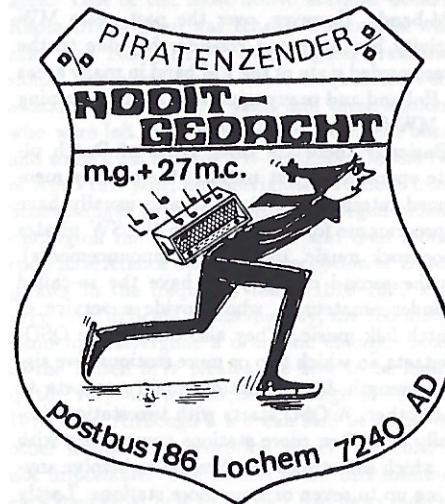
use Dutch if possible, although not necessary, it will be appreciated since many of the operators don't speak English at all. You can include a SINPO rating, but it will not be understood by a lot of pirates. Therefore, you should also describe the reception in words. Primarily they are interested in signal strength and modulation quality, which simply can be described as any of poor, fair, good, very good etc. Then you can go on describing any type of interference and anything else that might be of interest to the station. Since most stations play Dutch folk music and QSO in Dutch, it might be difficult for you to get appropriate programme details. To spare this trouble, you can enclose a tape recording of the reception which is always highly appreciated by the pirates. But if you do send a tape, also record some other Dutch pirates you have heard from the station's area as this is likely to interest him (or her) as much as his own signal.

Always start off your report with your name, age and other personal details and try to show some interest in the country, its culture, its music etc. Also describe your receiver and aerial as fully as possible. Always include double return postage with your report, either with Dutch mint stamps or 2 IRC/1 USD. You can also enclose a few post cards from your area or tourist brochures, or even a photo of yourself in front of your radio set. You will often be rewarded by getting similar in return. Don't demand a verification (QSL) but add a polite request towards the end of your letter. Reception reports are always welcome and a reply is usually forthcoming. After receiving a QSL, you should always send the station a note of thanks for the reply. This may sound unnecessary, but it is self evident politeness and much appreciated by the pirates. It also ensures that the next DX-er's report gets a reply as well.



Some good advise on radio equipment and aerials

Any radio receiver that covers the required range can be used to DX the Dutch MW pirates. For the best results, however, a communications type receiver which has good selectivity and sensitivity and a digital frequency read-out should be used. The best antenna to use for Dutch pirate DX-ing is a longwire antenna, up to a couple of hundred metres long, directed towards Holland. People with space restrictions should use an indoor medium wave loop and a DMA-amplifier (Differential Matching Amplifier) which can prove to be just as good as a longwire antenna. You can write to Derek for further details on MW-loops and the DMA.



Station list

At the end of this article, we'll provide you a comprehensive list over the most common Dutch pirates and their frequencies. "186m" means that the station has had broadcasts on two or more frequencies on the 186 metre band. The list is based on what we have heard during the past 2 months. A bullet (•) in the third column means that the station has international broadcasts and a star (*) means that the station sometimes announces in English. A few stations provide regular programming and the fourth column tells indicates on which days these programmes can be expected.

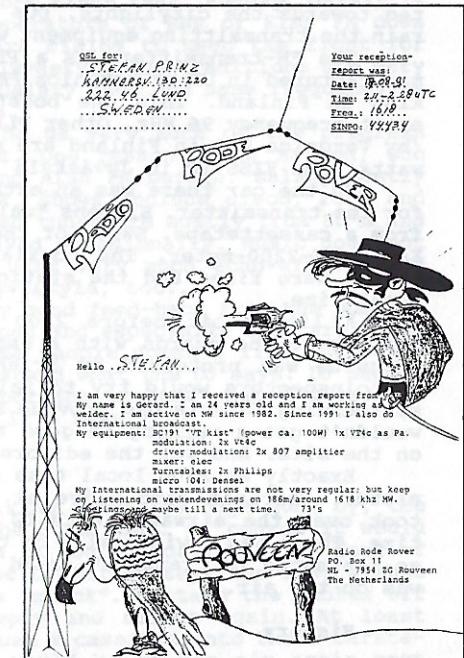
600&1508	Radio Scotland Int	•	
1509&186m	Radio Barones	•	Fri
1509&186m	Radio Kristal	•	
1509	Radio Pirana	•	Sun
1510	Radio Perlee	•	Sat
1602& 1625	Radio Armada	•	
1605	Golfbreker		
1605	Heideroos		
1606	Joker	*	
1606	Stormvogel		
1606	Tockomst	*	
1607	Baanbreker		
1607	Nooitgedacht	•	
1607-1610	Noordzee		Fri
1607	Piepzender		
1607	Thoreline		
1607	Radio Verona (B)		
1607	Zwarte Non	*	
1608	Radio Nova 4	•	
1608	Radio Santana	*	
1608	Spanningzoeker	*	
1609	Calipso Int		
1609	Radio 807	*	Sun
1609	Havanna		
1609	Texta Cowboy		Sun
1610	Zeetiger		
1612	Steerenboog		
1613	Sylvania (B)		
1614	Kippenboer		
1614	Ome Jan		
1615	Meteoor		
1615	Radio Olieman		Wed
1616	Barracuda		
1616	Nordmend	e	
1617	Boskabouter		
186m	Radio Casablanca	•	
186m	Z Curacau		Sun
186m	Pelikaan	•	
186m	Schaduwjager	*	
186m	Tydbreker		
186m	Weduwe		

YOUR PIRATE STATION
Radio Barones
Directly broadcasting from the East of Holland
Medium Wave: 1609 kHz
P.O.Box 73, 7160 AB Neede, The Netherlands

Concluding words

If you start DX-ing Dutch pirates, you'll probably come across a lot of problems, such as identifying stations, unknown addresses etc. And you will hardly get any help from the DX-magazines since there are very few DX-ers who seriously listen to the 186 metre band stations. So if you want help or any other information on the Dutch MW pirates, don't hesitate to contact any of us at the addresses below:

Derek Taylor, 12 Dorman Road, Preston, Lancs PR2 6AS, ENGLAND
Stefan Printz, Kämärsvägen 13D:220, 22646 Lund, SWEDEN



We also publish a brandnew Free Radio magazine called "Pirate Connection" which includes a pirate address list containing many of the addresses to Dutch MW pirates as well as a medium wave column, "186", by Derek. You will also find several features & interviews with Dutch pirates in our mag. Send £2, 4 USD, SEK 20 or 4 IRC to Stefan and we shall send you the mag promptly.

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Radio Galaxy FM from Finland

The V8-engine was steaming when we cruised our vehicle to a small garden in the suburbs of Jyväskylä. It was Saturday 16th May 1992 and it was 2135 local time.

We got off the car and met 2 young men, whose age was around 20-25 years. After a short negotiation we climbed to another car, which was already full of radioequipment. The driver told us his name was DJ Mega Hertsi. It was time to go.

In two vehicles we drove to the dark and cold springnight along small roads in the woods. We moved higher and higher to the hills which surround our hometown Jyväskylä in the Central-Finland. After many kilometres driving the cars stopped to a place near the top of one hill east of Jyväskylä. On out left side there were no trees and we could see the distant lights of Jyväskylä citycenter in the otherwise dark night. We were on the place.

The operators started lifting gear out of the car. A homemade 2-element quadri was soon assembled to a tree nearby. It was ejected towards the citylights. Due to the cold weather and possible rain the transmitting equipment was built to the bench of the car.

The FM-transmitter was a PLL-crystal-oscillator transmitter manufactured in UK by Veronica FM. There is 3 transmitters of this kind in Finland. This one boosts out 15 watts of power to the exact frequency 96 MHz. Other PLL-crystal-oscillator transmitters (by Veronica FM) in Finland are used by Radio Wega in Kouvolan (35 watts) and KISS FM in Jyväskylä (30 watts).

On the car there was an extra carbattery to provide 12 volts for the transmitter. Siemens "walkmans" did provide the modulation from a cassettemape. SWR:s of the quadiantenna was checked with a Kaise SK-2200-meter. The coaxialcable to the antenna and other cables were fixed and the station were ready to transmit at 2230 local time.

A little bit before 2300 local time DJ Mega Hertsi took contact to the guards with a small radiotelephone. The transmittingsite was protected by friends as guards in case police or radioinspectors would try to raid the station. And of course the surrounding forests did provide a good chance to escape in case we wouldn't get a warning in good time. There were only 2 operators on the site. And we, the editors of PC.

Exactly at 2300 local time power was connected to the transmitter. Carradio came alive at 96 MHz and the music by Madonna took over the airwaves with DJ Saigon presenting the show this time. There was a wide smile on the operators' faces. "It's always so fantastic to transmit", said DJ Mega. Yes it is. Radio Galaxy was on the air.

History

Radio Galaxy has worked many years to reach this point. The mainoperator DJ Mega got interested in radio in 1984 as a DX-listener. Later he got interested in transmitters, too, and start using Citizen Band-equipment. DJ Mega found free radio in 1988, when he listened to Right-Wing Radio on the air (95,9 MHz FM in Stereo, 300 watts ERP). RWR was raided in spring 1988, but free radio was kept alive in Jyväskylä by KISS FM (95,9 MHz FM stereo).

In 1989 DJ Mega decided to try some kind of FM-transmitting by himself. He built many small power (less than 1 watt) FM-transmitters and later started building a 8-watt transmitter. 1991 was very active year in building, but it proved to be almost impossible to get the 8-watt driver to work properly. The transmitter was built again 3 times, but the harmonics and other problems seemed

to be impossible to win.

In autumn 1991 DJ Mega heard that it would be possible to order cheap and good "factory-made" FM-transmitters from UK. In the end of 1991 a transmitter with ordinary oscillator was ordered from Veronica FM. In the beginning of 1992 the new transmitter did arrive, but -surprise surprise- it was equipped with a PLL-crystal-oscillator! Even better so. This one should even meet the specs of local radio transmitters in Finland. Same kind of transmitters all really used by local radios elsewhere in Europe, for example in Estonia (Viimsi Raadio 100,0 MHz in Tallinn).

Since January 1992 Galaxy has been on the air on 96 MHz at Friday or Saturday nights at 2300 LT. Galaxy doesn't want too much publicity, although it even had a possibility to appear on national TV. It's the station's policy to keep low profile and not to "wake up" police and radioinspectors.

Jyväskylä is a very familiar place for radioinspectors of THK (=Telehallintokeskus, same as FCC in USA or DTI in UK). In this hometown of Matti Nykänen (the hilljumper) there has been free radio activity without interruptions since 1984. Anyway, Galaxy is an independent station and the operators of RWR or KISS FM does NOT work on Galaxy. New people are rising to keep the fight for free radio alive and kicking. In Jyväskylä the traditions are very important. That's the reason why Galaxy uses the same frequency as the other stations did use before.

The programs of Galaxy remind us very much of the programs RWR and KISS FM used to transmit. One reason is DJ Saigon, who also did produce shows for RWR and KISS FM before. Galaxy mostly plays musicshows for young people. Shows include disco, rock and pop from Finland and abroad. Played tunes are mostly from 80's and 90's, but also older music is played occasionally. Music does not have to be TOP-40 stuff. Galaxy uses very much echo-effects and jingles. That's a tradition in Jyväskylä, too...

The station has received very good feed-back from the public. People seem to like the musicchoices and especially they are happy to have a free radio in town. Some people doesn't like the echo, they say it's impossible to understand what the DJ says. DJ Saigon did give a comment: "It's not important to know what I'm saying, echo is one element of show. And it's beautiful."

Power off

At the same time we were talking about the days gone by, the 45-minutes long show did reach the last song. Of course it would be nice to keep the show going on 24 hours a day, but the fear of the THK is too strong. On the tape DJ Saigon says the last wishes and the "walkmen's" autostop says "click". We take the cables off the carbattery and 96 MHz is empty and silent again. At least hundred hands in the citycenter push a cassette onto their carstereos and hope that Radio Galaxy would be on the air again next weekend.

Pocketlamps give light when we pack the equipment back to the cars. Antenna is ripped off the tree. We start the cars and roll off the forest towards the civilization. The guards tell us that there were no problems. The fieldstrength has been good also in the citycenter.

Galaxy does not have regular transmissions due to the securityreasons. Transmissions take place after irregular times from different locations and always mobile. For the listeners this means that they don't know if Galaxy will be on the air on any specific day or not. Also the fieldstrength on a specific area varies, because the transmittingsite is not the same every time.

Let's have a beer

After a successful transmission it's good to have a beer or two. And what would be a better place to have one, than a terrace on the new walking district in Jyväskylä. Even if it's a cold night. DJ Mega likes to talk, so I'll let him speak and so I can drink without interruptions...

"Our main team is small. It's quite easy to find guards, but it's much harder to find operators to the main site. Now we are negotiating about co-operation with another FM-station, Radio Milliwatti. We will join our forces and produce joint programs and operate the transmissions together. Galaxy does not have own address. We can't use the Wuppertal-box, as there is a station with the same name in Germany. But you can write to us via Radio Milliwatti (Wuppertal box). Oh yes, we are always interested to take more people to work for the station. If you are interested, contact us."

"It's incredible feeling when a transmission succeeds, plans come true and you get positive feed-back from the listeners. Of course you can't win every time, everybody have bad days too. Now it's easy to operate, as we have a very good transmitter. Before all our sparetime went to the building of own transmitters. Now we can relax and use the time for producing shows, as we don't need to open the transmitterbox at all."

"We have the same motives to operate a station as other stations and operators. It's nice to have fun and this IS fun. But of course the most important thing is the liberation of Finnish radio. Everybody should have a possibility to start their own station. We need more local radios. Radiostations should have different formats and different groups (musically, politically, etc.) should have own stations. Did you know that there's over 1900 unused local radio channels allocated for Finland?"

"The biggest problem in free radio activity is that it's illegal. You don't get used to it. There's always some kind of stress and fear when you are transmitting in the woods. If something goes wrong. Police or THK strikes. But it should not keep you away from pirateactivity. We need more free radios to all wavelengths and all areas."

"Galaxy has not applied for a legal local radio licence. We wouldn't get it, so why bother? In fact I will not work on radio for my profession. If some legal station would offer me a job, I wouldn't take it. I wouldn't leave Galaxy. Or maybe it the case that there would be new operators who would continue after I'm gone."

"The difference between free radio and local radio is the program style. Our style is more free. We don't kiss advertisers or politicians ass. The political climate in Finland is more free than some years ago. Local radios are not so dull and censorized as they used to be. That's why free radios have to fight harder and do better programs."

"People listen to us because we are different. And there's some excitement in being illegal. It's exciting for the listeners to listen to us, because they know that we can be raided and gone in any minute. Listeners and ordinary people are on our side. We don't cause harm to anyone. People don't think we are some criminals. I don't think I'm a criminal, although I could get heavy fines and one year in prison if they get me."

DJ Mega drinks the rest of the beer and walks to the night. We eat some kebab before we let our V8 to ride us home. I save the frequency 96 Mhz to a free memorychannel on my carstereo. I have to remember to listen to 96 Mhz next weekend. Maybe Galaxy's on the air. Madonna sings in the night.

THE RADIO SCOTLAND STORY

- An exclusive interview with Albert Dolfing, a true pirate and living legend!

Last summer I had the privilege and pleasure of visiting the well-known as well as one of the most popular medium wave pirate stations from Holland, Radio Scotland. During our visit (I went together with my German friend Uwe Jülich) we had an international broadcast with about 20 (!) guests at Albert's place. Among the "celebrities" were Gerrit of Voice Of The Netherlands and his wife Hilma & Radio Northlight and friend from Germany. Later on, I also payed a visit to Gerrit and his "powerhouse" transmitters which were a very impressing sight indeed. Another pirate I visited was "Blauwe Piraat", a low-powered medium wave pirate from the same area. However, I will concentrate this article on an interview I did with Albert, in which he gives you all details about how he got started, about the transmitters, the four raids, about his view on pirate radio etc.

- My parents used to listen to the music programmes from the Dutch pirates and my father also had his own pirate station in the 50's. My father also listened to the offshore stations and that's how I became interested in offshore radio. My absolute favourite was Radio Veronica who broadcasted on 192 metres.

But the transmissions from Veronica were stopped on the 31st of August 1974, a day that Albert remembers as if it were yesterday:

- That day I listened with tears pouring down from my eyes, but my sorrow turned into an anger which made me promising myself that I would start a radio station of my own.

Indeed, Albert meant what he said and put his words into reality. A friend of his built a transmitter with two 807 tubes which gave an output of 15 W. The transmitter was finished in may 1975.

- In the meantime the other pirates had become much more powerful and I had to get a new transmitter. In 1977, my friend built a new transmitter for me, based on an army transmitter with two VT4C tubes which gave 100 W of power. At this time I had no international broadcasts as I had no idea that our weak signals could reach outside Holland. In 1978, a neighbour pirate told me that he had got several letters and reception reports from abroad and I was very thrilled about this. So I began making international programmes myself the same year and got quite a few letters, mostly from Finland but also a few from Sweden. However, most of my programmes were aired on Saturdays at 11-12 on 227 metres and were aimed for a local audience only. Our signal covered the Drenthe and Groningen area /two provinces in the north-east part of Holland/. We transmitted from my parents' home and the programme format consisted of Dutch folk music. A while later, we began with Sunday transmissions, something that is much more risky since there are lots of pirate activity on Sundays and thus also more activity by the RCD.

And then, on one of these beautiful days, that happened that mustn't happen...

- One of our guys kept a look-out for the RCD during our transmissions, but many times he pulled our legs and said "they're coming". Eventually the RCD really showed up, but everyone thought he was joking. But I managed to get rid of the tubes before they came and one of my mates hid the transmitter behind a bush. But the RCD threatened one of our guys by saying that he would have to go to jail if he didn't tell where the transmitter was hidden. The poor guy was scared to death and couldn't stand the pressure. So we got raided and this happened on the 19th of March 1978.

- Only one week later I was back again! This time I built the transmitter

myself and it was rather similar to the one we used before. This one was more high-powered though, running with almost 400 W of power and it was the best transmitter I've ever had! Radio Nolan also built a transmitter for me and it worked good at his place, but when I tried it at my place it just didn't work!

A second raid took place one year later and Albert's parents had had enough.

— "This is too much" they told me. "If you're gonna continue you'll have to do it somewhere else". I borrowed a caravan which I rebuilt in order to find room for the transmitter. I had not been transmitting for 6 months at this time, but in the meantime I built a new 200 W transmitter with 4 808-tubes. I placed the caravan on my parents' land, 500 metres away from their house, and it was now that I began having parties in 1980. I played Dutch folk music from 20.30 till midnight every week and my station grew incredibly in popularity and I became famous in my local area. I got free records from several record companies, I got sponsored by several shops and the best of all, I got free beer from our local pub! The telephone rang all the time and people requested records to be played and sent dedications. One night I amused myself by counting how many calls I got during one hour and the result was 125! If we didn't have any requested record in our studio, people often dropped by, giving us records they wanted us to play! We didn't have the telephone in the caravan, but in Beilen where a couple of our guys answered. Then they went up to our place telling us which records we would play. However, there was a serious problem with this procedure. The guys in Beilen often got so drunk that they never showed up...!"

Another amusing incident bear witness to Radio Scotland's huge popularity:

— One evening I got a telephone call from a mental hospital that told me that they had got lots of calls the past hour that were meant for us. It turned out that there was only one digit in difference of our telephone numbers and the overloading on our line made the telephone exchange to connect wrongly.

Albert smiles like the sun and says:

— I like this story, because it gives a little indication of how much popular my station was.

In May 1984 Albert experienced his third raid. Three RCD-cars containing 2 RCD officers and 6 policemen swooped by, taking everything that was in the caravan, including transmitter, SWR-meter, records etc. Besides Albert had to face a trial in which the prosecutor demanded for 14 days in prison, a fine of 250 Guldens and another fine of 250 Guldens if he would be caught again within a period of 3 years.

— But my lawyer told the court that this punishment was too severe because I had never interfered anyone, nor had I ever got any complaints about my transmissions which also the RCD had to admit. So I "only" got fined by 250 Guldens, but I was also sentenced with 50 hours of "society service" which I had to do on my spare time. But, of course, this was much better than jail. A mate of mine told me that "that was a damn good judgement you got, now you can relaunch your broadcasts" and I replied "I've already restarted, do you have any requests?"!

After the third raid though, many things changed for Albert. He built a new transmitter, but the caravan changed hands and the new owner wanted a rent of 400 Guldens each month. The popular Sunday broadcasts by Radio Scotland had to cease and Albert also thought that it was too risky to broadcast regularly each week. 1985 was the definitive end of the local programmes and Albert continued with occasional international programmes only. In 1986, Albert bought a house in the small village

Spier which is situated 5 km from Beilen and he spent much of his spare time to get the house in good shape and to set up a good antenna. Little by little, he began transmitting and at Easter, Whitsun and Christmas he had some special programmes when his neighbour, who is running a restaurant, had many customers:

— He always used to listen to my programmes and he always puts on my music in the restaurant as soon as I'm on the air!

In August 1988, Albert made his debut on short wave. I guess some of you remember these transmissions. Albert's friend Gerrit of VOTN had built a powerful 350 W transmitter and it had modulation peak levels at 600 W. Albert tells that it was a very good transmitter, but there were only two transmissions with it:

— I made a test of only 5 minutes and unluckily one of those RCD cars happened to pass by on the motorway which goes by here just outside our village. They dropped in here and took all of it, transformer, modulator, amplifier, microphones, cassette deck players, turntables and they even managed to find my medium wave transmitter which was hidden in the garage.

The RCD exhorted Albert that he must stop with the illegal transmissions but Albert was quick at repartee:

— The day you'll stop hunting pirates, I'll stop transmitting!

This time Albert had to pull through yet another trial and he was fined with 500 Guldens. In September Albert started the work on a new medium wave transmitter and he was back on the air the same month with irregular transmissions and mostly QSO's. After a while, the international programmes started again, during nights when Albert knew that his neighbours were asleep or out of town.

— One of my neighbours often listens to classical music in the middle of the night and he has complained loudly on the interference that my transmitter causes to his stereo set. Therefore, I only transmit when I know that he's away or on vacation. The transmission we had on the weekend was one of these lucky days, my neighbour was temporarily out of town, Albert explains.

Albert admits that he's much more cautious with transmitting now after all the years, but he also points out that all the raids were pure coincidents:

— Every time the RCD happened to be in the neighbourhood and were on the hunt for other stations. But a few times there was only me on the air, and in the absence of other stations, they busted me...

Albert also means that a few pirates might conduce to the raids of other stations:

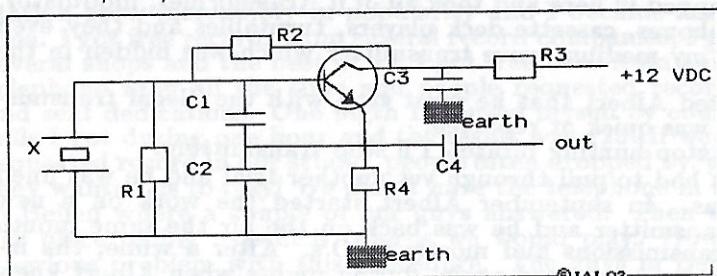
The pirates must take great care when choosing frequencies. Some frequencies are used by the coast guards for example. And the RCD have the task to stopping stations that cause interference. When the RCD are to raid such a station, they have no guarantees that the station is on the air and then they might choose to catch some other station, which wasn't their intention to raid at first. In this way many "innocent" pirates get busted, Albert says.

The future of Radio Scotland seems to be rather uneventful, unfortunately. This is mainly because of his ferocious neighbour complaining about interferences and also due to his job as a truckdriver. More than a few transmissions each year can't be expected. On the other hand, these transmissions are well worth waiting for. Listen out for Scotland on 600 kHz (!), 1508 kHz as well as on 186 metres with his irresistible live rock programmes, and most times with lots of crazy & drunken people in the studio!

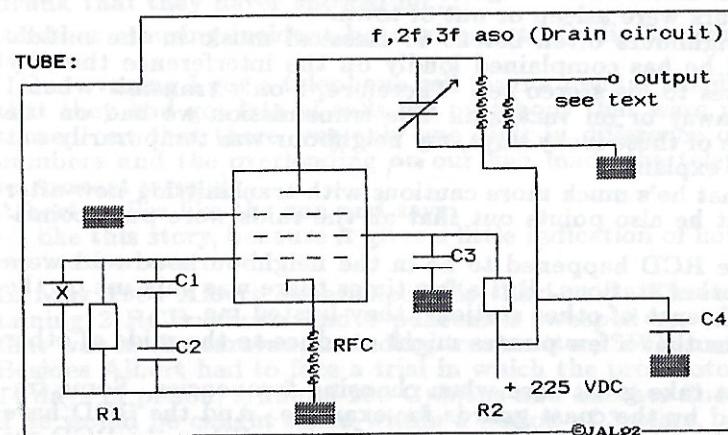
By Jonny Augustsson

Hello and welcome back to Free Radio Technique!
Now during the autumn, we will have plenty of time for building, so let us begin with SW.
First you need an oscillator. I, myself, like the Colpitt Osc., so therefore I will show you some build up around a transistor, a tube and a LC-circuit.

The transistor could be a 2N2222A or a 2N2219A, I recommend the 19A. The frequency are in the range of 7.6 to 7.2 MHz for the best tuning.



R1 10 kΩ
R2 15 kΩ
R3 100 Ω
R4 1,8 kΩ
C1 47 pF
C2 100 pF
C3 0,1 μF
C4 = C2
X-TAL: 7,2-7,6 MHz
Trans.: 2N2222A or
2N2219A

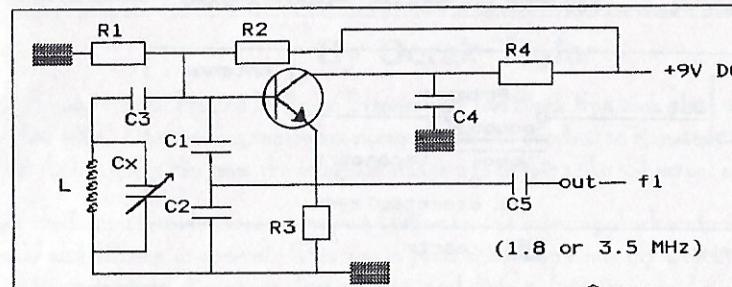


R1 100 kΩ
R2 22 kΩ
C1 22 pF
C2 100 pF
C3 0,01 μF
C4 = C3
Tube: 6GK6

The drain circuit. High Q-value necessary. The Osc starts to oscillate when the output circuit is tuned to a frequency a bit across the overtonefrequency.

Another way of making an Osc., are by using a coil and a conductor. This is called a LC-Osc.

LC-Circuit:



R1 15 kΩ
R2 27 kΩ
R3 1 kΩ
R4 100 Ω
C1 1 nF*
C2 = C1
C3 500 pF*
C4 0,1 μF
C5 50 pF (47)
Earth

* = Polystyrene OBSERVE! (1nF = 0.001 μF)

Cx see text L see text

$$1 \dots f = \frac{1}{6,283 * \sqrt{L * C}}$$

Use a variable capacitor 5-60 pF and calculate your coil as shown in the example.

Example:

We want the frequency to be 1600 kHz. That is $1.6 * 10^6$ Hz. C was 5-60 pF. We calculate it as 16 pF for example. That is $1.6 * 10^{-13}$ F.

$$L = \left[\frac{1}{2 * \pi * f} \right]^2 \Rightarrow L = \left[\frac{1}{2 * \pi * 1.6 * 10^6} \right]^2 = 620 \mu\text{H}$$

In table A, I have calculated Cx to be 20 pF

Table A:

kHz	μH
1500	563
1600	495
1700	438
1800	390
1900	350
2000	317

Table B:

μH	f max	f min	kHz
300	4110	1190	
400	3560	1030	
500	3180	920	
600	2900	840	
700	2690	780	

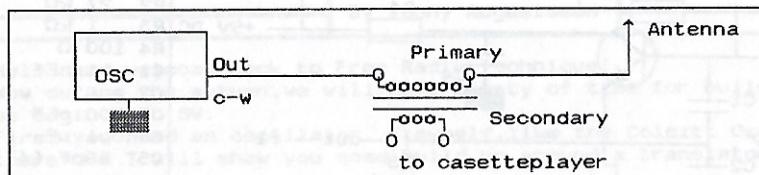
Cmin = 5 pF and Cmax = 60 pF

A variable capacitor 5-60 pF with a 390 μH coil, will work between 3604 and 1040 kHz. I have made some calculations in table B, for studying.

If you are using metallic screwdriver when tuning, you soon realize that it is difficult to tune in the "right" frequency.

You should always use a pure plastic stick as screwdriver when you are tuning Cx. Any metal stick will work as a second coil and after 30 minutes of adjusting you will go crazy and your neighbors starts to complain. You become more crazy and soon will peoples in white coats and funny cars with blue or red twinkling lights come and get you away. So do not use metallic screwdrivers when tuning.

If you connect the crystal osc (7.2-7.6 MHz) to a transformer, with a ratio of 45:1, as figure, your TX are almost ready to work.



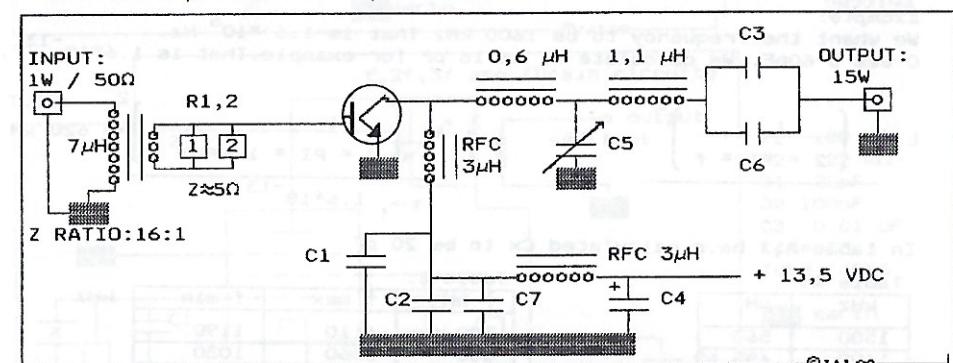
c-w = carrierwave

= earth

Now we have a very low effect Tx with an output around a Watt. So what we need now is a class C power amplifier. A PA with an output around 100 W and more needs more transistors than the one I am going to show you. This one gives an output of 15 W with 1 W input.

You need:

- 1 broadbandtransformer. Z ratio 16:1 to compensate the 50 Ω input-impedance to 5 Ω for the transistor.
- 2 coils with ferrite core. 0.6 and 1.1 μ H.
- 2 Radio Frequency Coils (RFC) on 3 μ H.
- 1 variable capacitor. 1500 pF. (C5)



R1,2 = 10 Ω , C1 = 1 nF , C2 = 10 nF , C3,6,7 = 0.1 μ F , C4 = 22 μ F/25 V

If you use high quality components, it will give you good results. And if you're not a hell of a coil-maker, you should ask someone who is, or buy them from your local shop. Do remember; if you use high quality components you might try to exchange the VC to a normal capacitor and get one frequency, which are "almost" stable.

DUTCH PIRATE VISIT

By Derek Taylor

The planned visit to Preston by Radio Barones and The Black Nun took place on Thursday the 1st of October 1992. After waiting somewhat nervously for the doorbell to ring, they finally arrived around 2 pm. As is usually the case, the imagined image was nothing like the actual appearance.

After the formal introductions we made a beeline for the listening shack and soon got chatting about pirates and DX-ing in general. This was a good time to try out my Dutch, and to my surprise I could be understood. But when they got into local dialects I was completely lost, so we settled for a mixture of Dutch and English.

The Baro brought some amazing pictures of his transmitter, modulator, studio and antenna. As they were here for five days, it was pointless trying to show them all the QSL's etc on the first day. As it turned out, they were as keen on listening to the radio as I was, so most of the time was spent in the shack and the pub of course, hi!

We did quite a bit of 186 metre pirate DX-ing and they were very surprised at some of the signal strengths, in particular from Santana, Spanningzoeker, Schaduwjager and Nooitgedacht. We even managed to hear a few regular North American MW stations, which were found quite fascinating.

Friday was taken up with sightseeing and a trip to Blackpool illuminations. After a trip to Liverpool on Saturday, we arrived back in good time to hear a very active spell of QSO-ing on 186 metres from around 16.45 UTC. This lasted about two hours, with around twelve stations being heard.

After another trip to the pub, we got home around 23.00 UTC to find a very quiet band for a Saturday night. A planned broadcast by Radio Perlee did not materialize. Fortunately, an all night transmission was made by Radio Barracuda in co-operation with Nordmende. Reception was fair.

Most of Sunday was spent with the family, looking at QSL's, reading letters, listening to station recordings and watching the odd video. In the evening, we gave DX-ing a miss and had a few drinks, although we did listen to the Radio Pirana programme on 1509 kHz.

Unfortunately, they had to leave on the Monday, but we had time to take some photographs and reminisce about the short time we had spent together.

All in all it was a very pleasant and memorable experience and I hope to reciprocate with a trip to Holland some time in 1993.

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